Service
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Service Manual

Horizontal Frequency
30-81 KHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Revision List

Version	Release Date	Revision History	TPV Model Name
A00	Sep 25, 2008	Initial release	T9RGM6DKKCH2HC
			T9RGM6DMKCH2HC
			T9RGM6DBKCH2HC
			T9RGM6DCKCH2HC
			T9RGM6DLKCH2HC
			T9RGM6DJKCH2HC
A01	Oct 30,2008	Add new BOM	T9RGM6DBKCH3HC
			T9RGM6DBKCH4HC
			T9RGM6DBKCH5HC

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Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all Lenovo Company Equipment. The service procedures recommended by Lenovo and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Lenovo could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Lenovo has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Lenovo must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.
Hereafter throughout this manual, Lenovo Company will be referred to as Lenovo.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics, may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from Lenovo. Lenovo assumes no liability, express or implied, arising out of any unauthorized modification of design.Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

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1. Monitor Specifications

Dimensions	Height Depth Width	378.7-488.7mm(14.91-19.24 in.) 241.1mm (9.49 in.) 408.0 mm (16.06 in.)
Stand	Tilt range Pivot anlge Swivel anlge	0°/+30° 0°/+90° -45°/+45°
VESA mount	Supported	100 mm (3.94 in.) Radial arm sold separately.
Image	Viewable image size Maximum height Maximum width Pixel pitch	481.9 mm (19.0 in.) 301.06 mm (11.9 in.) 376.32 mm (14.8 in.) 0.294 mm (0.011 in.) (V)
Power input	Supply voltage Max supply current	100 - 240 V ac, 60/50 ± 3 Hz 1.5 A
Power consumption **Note:** Power consumption figures are for the monitor and the power supply combined.	Normal operation Standby/Suspend Off	< 23 W < 1 W < 0.5 W
Video input(Analog)	Input signal Horizontal addressability Vertical addressability Clock frequency	Analog Direct Drive, 75 ohm 0.7 V 1280 pixels (max) 1024 lines (max) 135 MHz
Video input (Digital)	Interface Input Signal Horizontal addressability Vertical addressability Clock frequency	DVI VESA TMDS (Panel Link™) 1280 pixels (max) 1024 lines (max) 135 MHz
Communications	VESA DDC	CI
Supported Display Modes (VESA Standard modes between noted ranges)	Horizontal frequency Vertical frequency	30 kHz - 81 kHz 56 Hz - 76 Hz
	Native Resolution	1280 x 1024 at 60 Hz
Temperature	Operating Storage Shipping	0 to 40° C (32° to 104°F) -20° to 60° C (-4° to 140° F) -20° to 60° C (-4° to 140° F)

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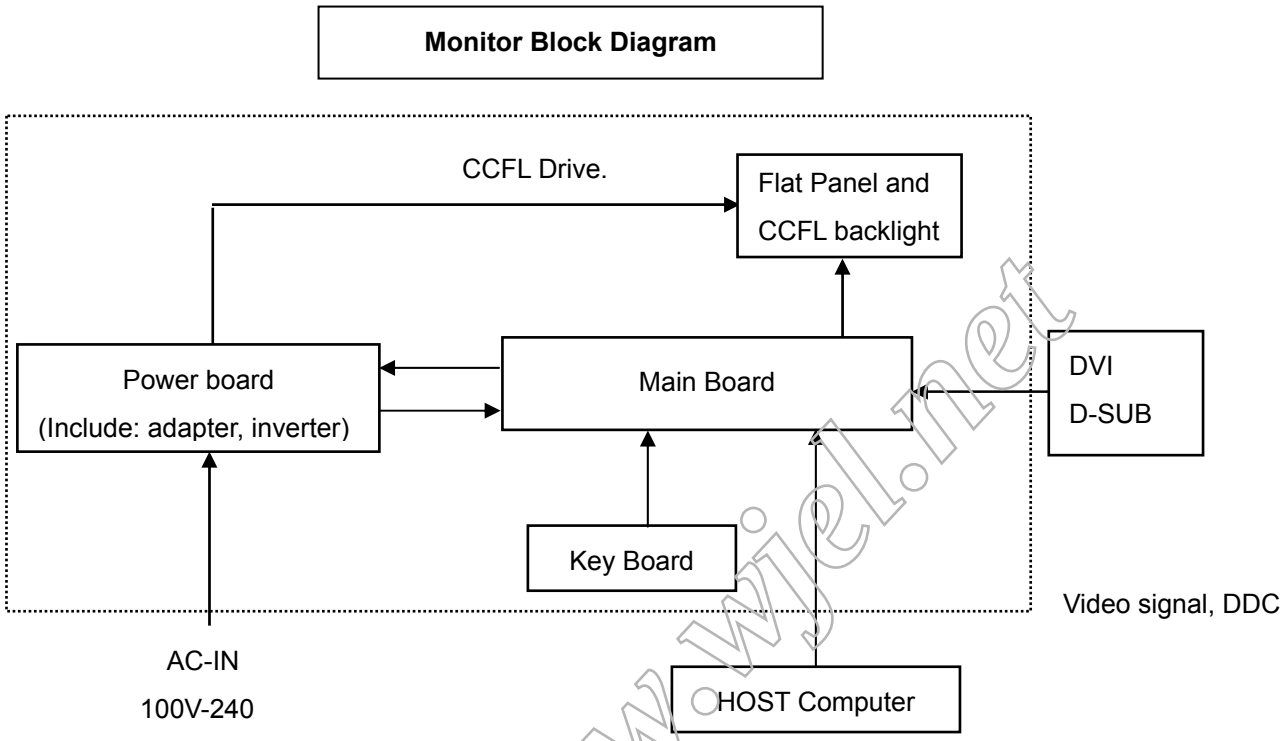
2. LCD Monitor Description

The LCD monitor will contain a main board, a power board and a key board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



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3. Operating Instructions

3.1 General Instructions

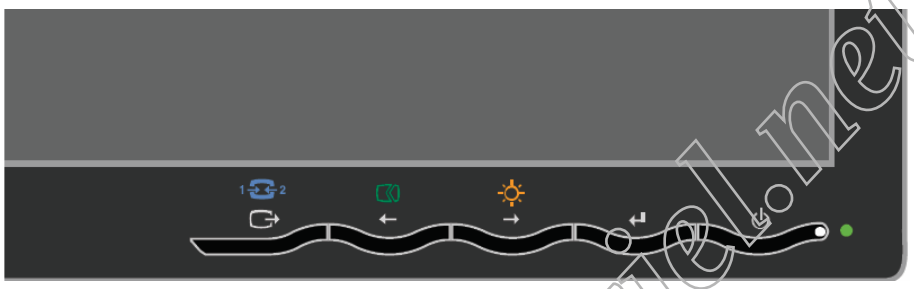
Press the power button to turn the monitor on or off. The other control buttons are located at the front of the panel of the monitor.

By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

3.2 Control Buttons

3.2.1 Key Control



Icon	Control	Description
	Input Change	Switches the video input source.
	Image Setup	Activates automatic image adjustment.
	Brightness	Direct access to Brightness adjustment.

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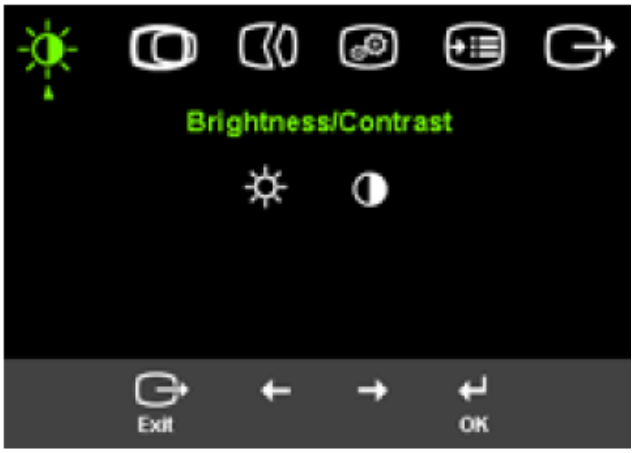
3.3 OSD Menu

The setting adjustable with the user controls are viewed through the On-Screen-Display (OSD), as shown below.



To use the controls:

1. Press ↵ to open the main OSD menu.
2. Use ← or → to move among the icons. Select an icon and press ↵ to access that function. If there is a sub-menu, you can move between options using ← or → , then press ↵ to select that function. Use ← or → to make adjustments. Press ↵ to save.
3. Press ⎋ to move backwards through the sub-menus and exit from the OSD.
4. Press and hold ↵ for 10 seconds to lock the OSD. This will prevent accidental adjustments to the OSD. Press and hold ↵ for 10 seconds to unlock the OSD and allow adjustments to the OSD.
5. Enables DDC/CI by default. Use OSD Exit Key,Press and hold the ⎋ buttons for 10 seconds to disable / enable DDC/CI function. The words " DDC/CI disable" shows on the screen.

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OSD function

OSD Icon on Main Menu	Submenu	Description
Brightness/Contrast	Brightness	Adjusts overall brightness
	Contrast	Adjusts difference between light and dark areas
Image Position	Horizontal Position	Moves the image left or right.
	Vertical Position	Moves the image up or down.
Image Setup	Automatic	Automatically optimizes the image.
	Manual	Manually optimizes the image. See "Manual image setup" on page 3-3. • Clock • Phase • Save
Image Properties	Color	Adjusts intensity of red, green, and blue. Brightness and Contrast can't be adjusted in sRGB mode.
	Preset mode	• Reddish • sRGB • Neutral • Bluish
	Custom	• Red: Increases or decreases the saturation of 'red' in the image. • Green: Increases or decreases the saturation of 'green' in the image. • Blue: Increases or decreases the saturation of 'blue' in the image. • Save: Saves the custom color choices.
	1 2 Input video signal	This monitor can accept video signals through two different connectors. Most desktop computers use a D-SUB connector. Select digital among OSD Controls when you use DVI connector. - Selects D-SUB (Analog) - Selects DVI-Digital
Options	Information	Shows resolution, refresh rate, and product details. Note: This screen does not allow any changes to the settings.
	Language	This section lists the languages supported by your monitor. Note: The language chosen only affects the language of the OSD. It has no effect on any software running on the computer.

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OSD Icon on Main Menu	Submenu	Description
Options	Menu Position	Menu position adjusts menu location on the screen.
	Default	Default returns the menu position to the default settings.
	Custom	• Horizontal: Changes the horizontal position of the OSD. • Vertical: Changes the vertical position of the OSD. • Save
	Factory Reset	• Cancel • Reset Resets monitor to the original factory settings.
	Accessibility	Controls button and menu settings for accessibility preferences. Button repeat rate: Select ← or → to change. • Off • Default • Slow Menu time out: Sets the length of time the OSD will remain active after the last time a button is pressed.

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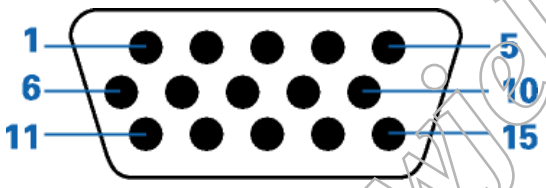
4. Input/Output Specification

4.1 Input Signal Connector

Analog connectors

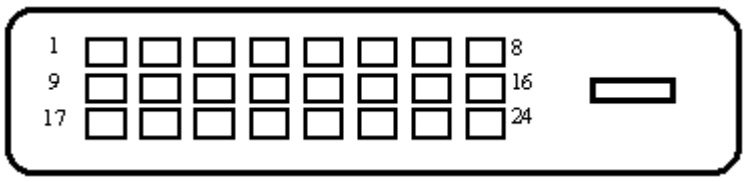
Pin No.	Description	Pin No.	Description
1.	Red Input	9.	+5VDC
2.	Green Input	10.	GND
3.	Blue Input	11.	GND
4.	GND	12.	SDA
5.	Connection detect	13.	H sync
6.	Red GND	14.	V sync
7.	Green GND	15.	SCL
8.	Blue GND		

VGA connector layout



DVI connectors

Pin No.	Description	Pin No.	Description	Pin No.	Description
1	TMDS Data 2-	9	TMDS Data 1-	17	TMDS Data 0-
2	TMDS Data 2+	10	TMDS Data 1+	18	TMDS Data 0+
3	TMDS Data 2/4 Shield	11	TMDS Data 1/3 Shield	19	TMDS Data 0/5 Shield
4	TMDS Data 4-	12	TMDS Data 3-	20	TMDS Data 5-
5	TMDS Data 4+	13	TMDS Data 3+	21	TMDS Data 5+
6	DDC Clock	14	+5V Power	22	TMDS Clock Shield
7	DDC Data	15	Ground(for+5V)	23	TMDS Clock +
8	N.C.	16	Hot Plug Detect	24	TMDS Clock -



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4.2 Factory Preset Display Modes

Addressability	Refresh rate
640 x 350	70 Hz
640 x 480	60 Hz, 66Hz, 72Hz,75Hz
720 x 400	70 Hz
800 x 600	60 Hz, 72 Hz, 75 Hz
832 x 624	75 Hz (Mac)
1024 x 768	60 Hz, 70 Hz, 75 Hz
1152 x 864	75 Hz
1152 x 900	66Hz
1280 x 1024	60 Hz, 70 Hz, 72Hz, 75Hz, 76Hz

4.3 Panel Specification

4.3.1 General Features

LM190E08-TLJ1 is a Color Active Matrix Liquid Crystal Display with an integral Cold Cathode Fluorescent Lamp (CCFL) backlight system. The matrix employs a-Si Thin Film Transistor as the active element. It is a transmissive type display operating in the normally white mode. It has a 19.0 inch diagonally measured active display area with SXGA resolution (1024 vertical by 1280 horizontal pixel array) Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with an 8-bit gray scale signal for each dot, thus, presenting a palette of more than 16,7M colors with Advanced-FRC (Frame Rate Control). It has been designed to apply the interface method that enables low power, high speed, low EMI. FPD Link or compatible must be used as a LVDS (Low Voltage Differential Signaling) chip. It is intended to support applications where thin thickness, wide viewing angle, low power are critical factors and graphic displays are important. In combination with the vertical arrangement of the sub-pixels, the LM190E08-TLJ1 characteristics provide an excellent flat panel display for office automation products such as monitors.

4.3.2 Display Characteristics

Active screen size	19.0 inches (481.9mm) diagonal
Outline Dimension	396.0(H) x 324.0(V) x 15.5(D) mm(Typ.)
Pixel Pitch	0.098*RGB(H)mm x 0.294(V)mm
Pixel Format	1280 horizontal By 1024 vertical Pixels. RGB stripe arrangement
Interface	LVDS 2Port
Color depth	16.7M colors
Luminance, white	250 cd/m^2 (Center 1Point, typ)
Viewing Angle (CR>10)	R/L 170(Typ.), U/D 160(Typ.)
Power Consumption	Total 14.3W(Typ.), (4.5W@V_{LCD} , 9.75W@I_{BL} =7.5mA)
Weight	2,450g (Typ.)
Display operating mode	Transmissive mode, normally White
Surface treatments	Hard coating (3H), Anti-glare treatment of the front polarizer

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4.3.3 Optical Characteristics

Parameter		Symbol	Values			Units
			Min	Typ	Max	
Contrast Ratio		CR	500	800	-	
Surface Luminance, white		L_{WH}	200	250	-	cd/m^2
Luminance Variation		δ_{WHITE} 9P	75			%
Response Time	Rise Time	Tr_R	-	1.3	2.6	ms
	Decay Time	Tr_D	-	3.7	7.4	ms
Color Coordinates [CIE1931]	RED	Rx	Typ -0.03	0.640	Typ +0.03	
		Ry		0.335		
	GREEN	Gx		0.298		
		Gy		0.608		
	BLUE	Bx		0.147		
		By		0.070		
	WHITE	Wx		0.313		
		Wy		0.329		
Viewing Angle (CR>5)						
	x axis, right(ϕ=0°)	θr	75	88		Degree
	x axis, left (ϕ=180°)	θl	75	88		
	y axis, up (ϕ=90°)	θu	70	85		
	y axis, down (ϕ=270°)	θd	70	85		
Viewing Angle (CR>10)						
	x axis, right(ϕ=0°)	θr	70	85		Degree
	x axis, left (ϕ=180°)	θl	70	85		
	y axis, up (ϕ=90°)	θu	60	75		
	y axis, down (ϕ=270°)	θd	70	85		
Crosstalk					1.5	%
Luminance uniformity - Angular dependence (TCO'03)		LR	-	-	1.7	
Color grayscale linearity		Δu'v'		0.018		

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4.3.4 Electrical Characteristics

(1) TFT-LCD

Parameter	Symbol	Values			Unit
		Min	Typ	Max	
MODULE :					
Power Supply Input Voltage	V_{LCD}	4.5	5.0	5.5	Vdc
Permissive Power Input Ripple	V_{LCD}	-	-	0.2	V
Power Supply Input Current	$I_{LCD-MOSAIC}$	-	900	1,050	mA
	$I_{LCD-BLACK}$	-	1,090	1,260	mA
Power Consumption	P_{LCD}	-	4.5	5.18	Watt
Inrush current	I_{RUSH}	-	-	3.0	A

(2) Backlight

Parameter	Symbol	Values			Unit
		Min	Typ	Max	
LAMP :					
Operating Voltage	V_{BL}	(640) (8.0mA)	(650) (7.5mA)	(780) (3.0mA)	V_{RMS}
Operating Current	I_{BL}	3.0	7.5	8.0	mA_{RMS}
Established Starting Voltage	Vs				
at 25 °C				1,100	V_{RMS}
at 0 °C				1,400	V_{RMS}
Operating Frequency	f_{BL}	40	-	70	kHz
Discharge Stabilization Time	T_S	-	-	3	Min
Power Consumption	P_{BL}		9.75	10.73	Watt
Life Time		50,000	-		Hrs

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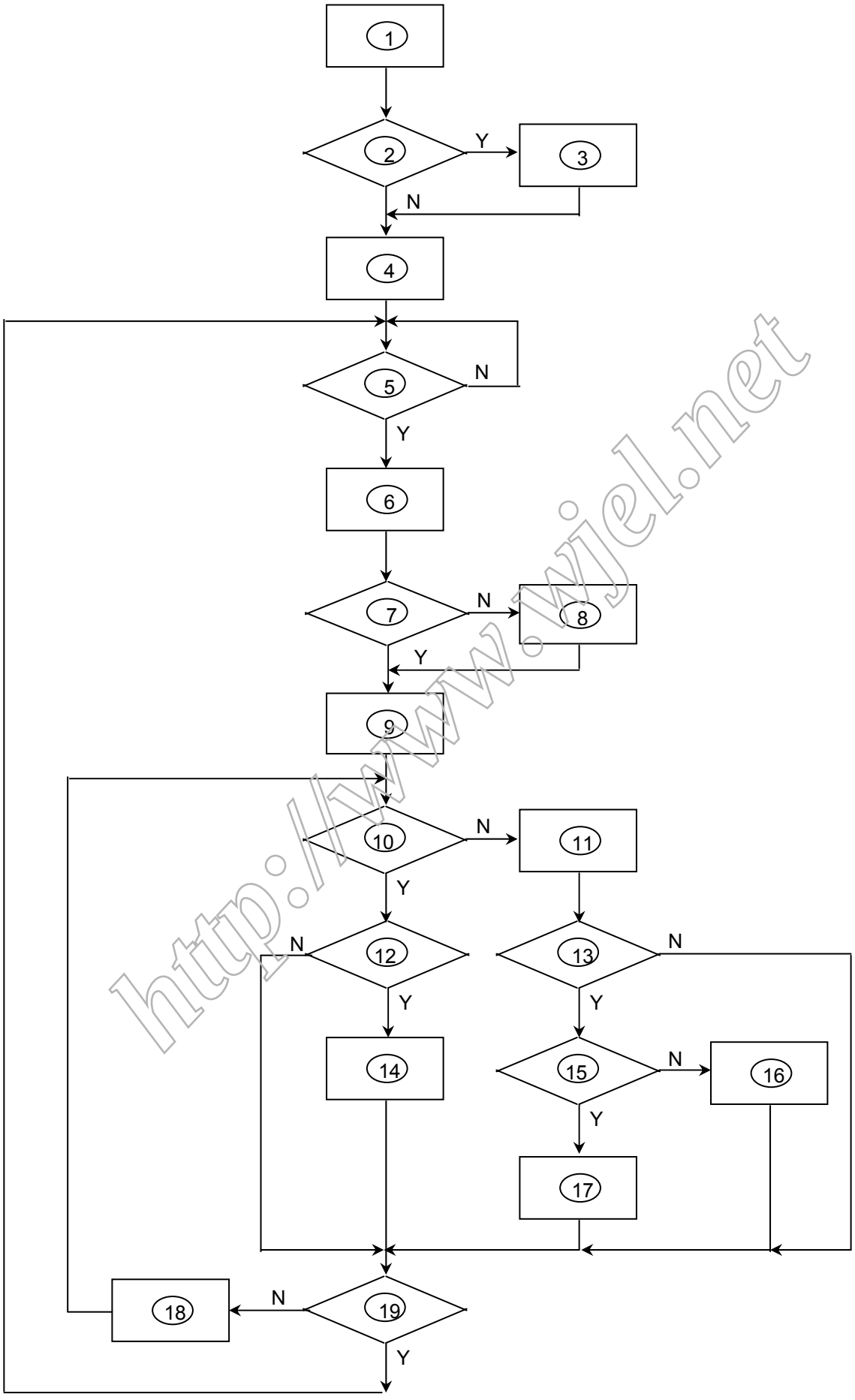
5. Block Diagram

5.1 Software Flow Chat



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1) MCU initializes.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

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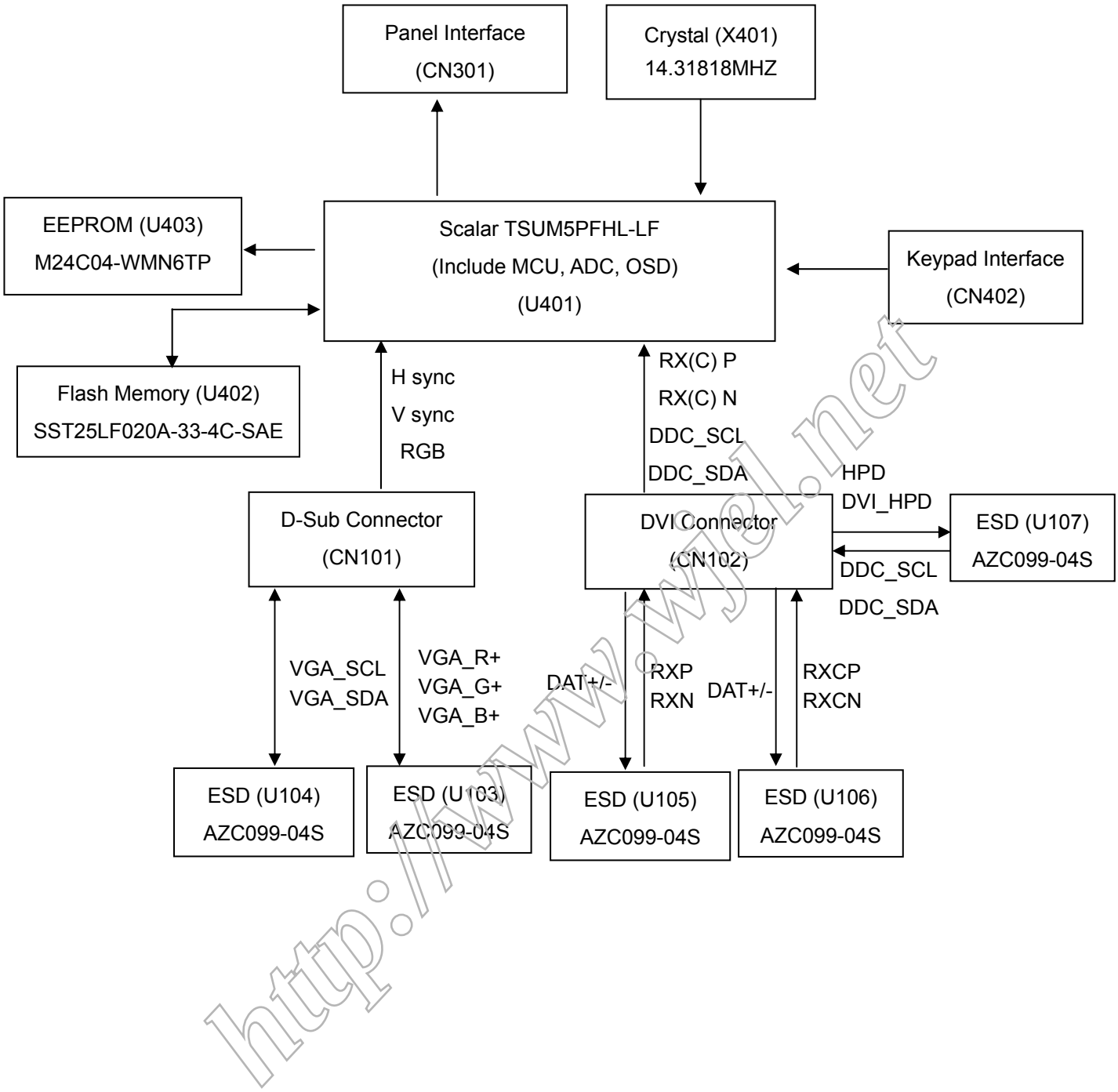
5.2 Electrical Block Diagram

5.2.1 Main Board



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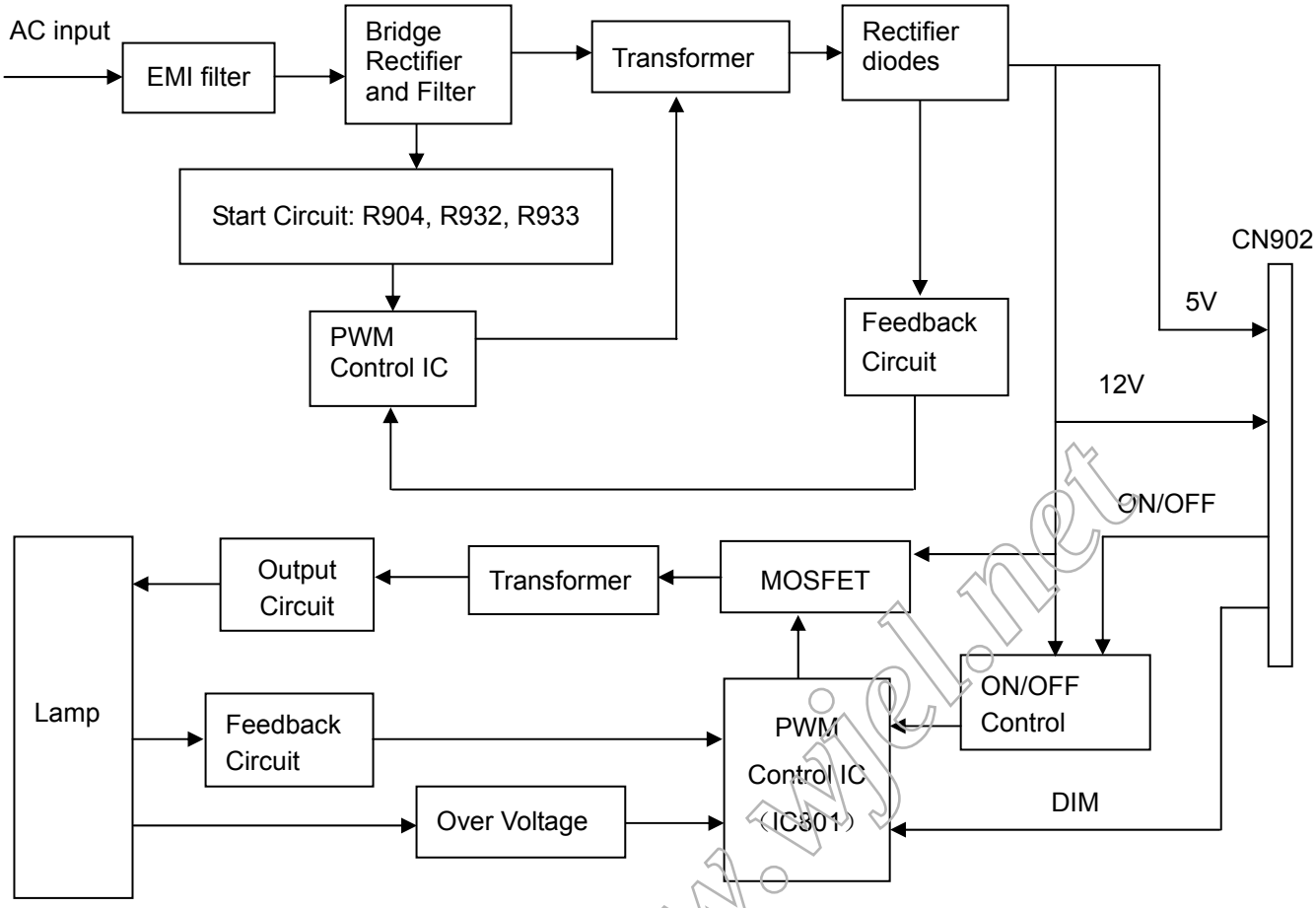
5.2.2 Inverter/Power Board



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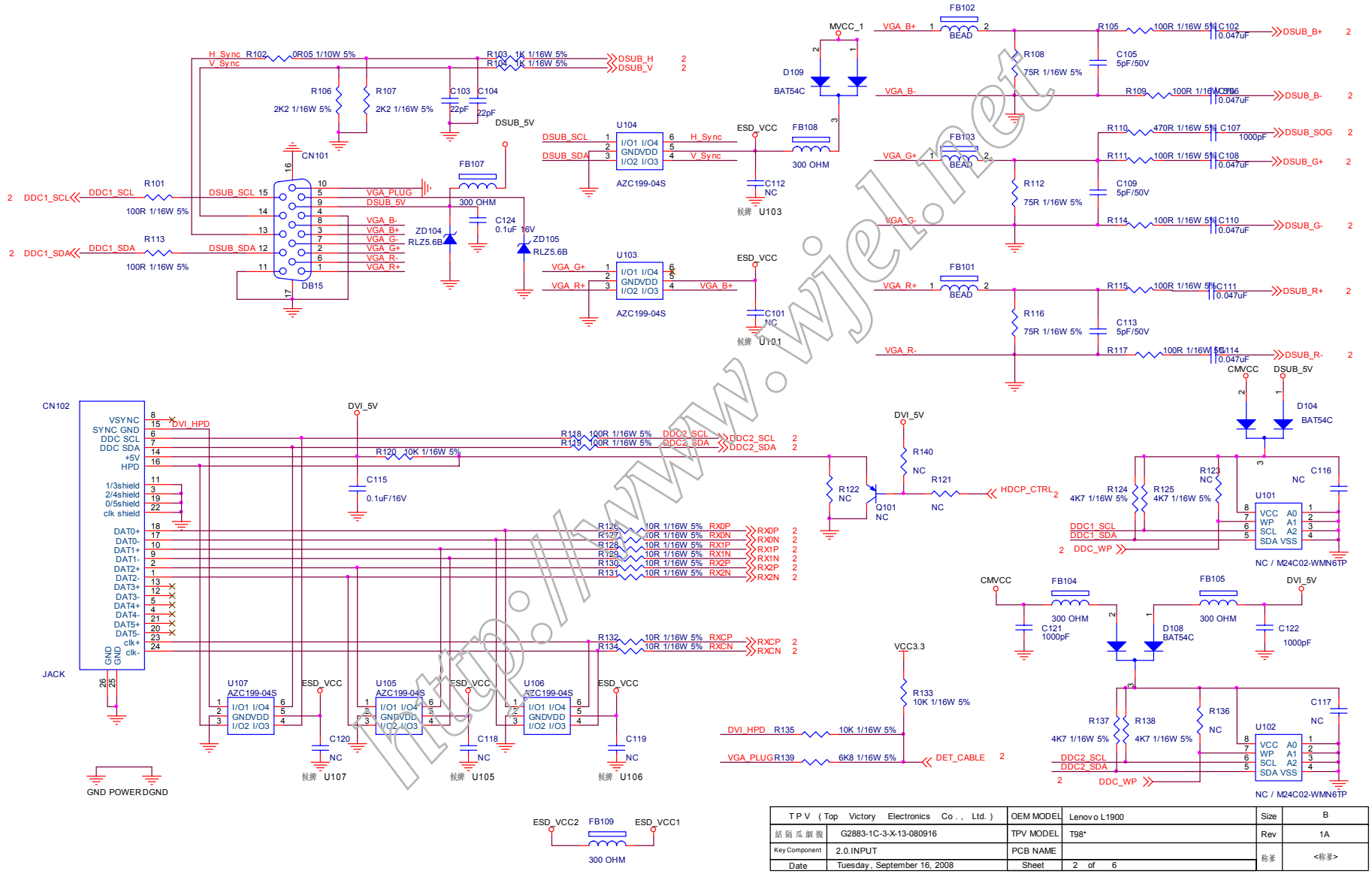
6. Schematic

6.1 Main Board

715G2883-1-6



T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	Lenovo L1900	Size	B
紙 隔 爪 鋼 腹	G2883-1C-3-X-13-080916	TPV MODEL	T98*	Rev	1A
Key Component	2.0.INPUT	PCB NAME		称爹	<称爹>
Date	Tuesday , September 16, 2008	Sheet	2 of 6		

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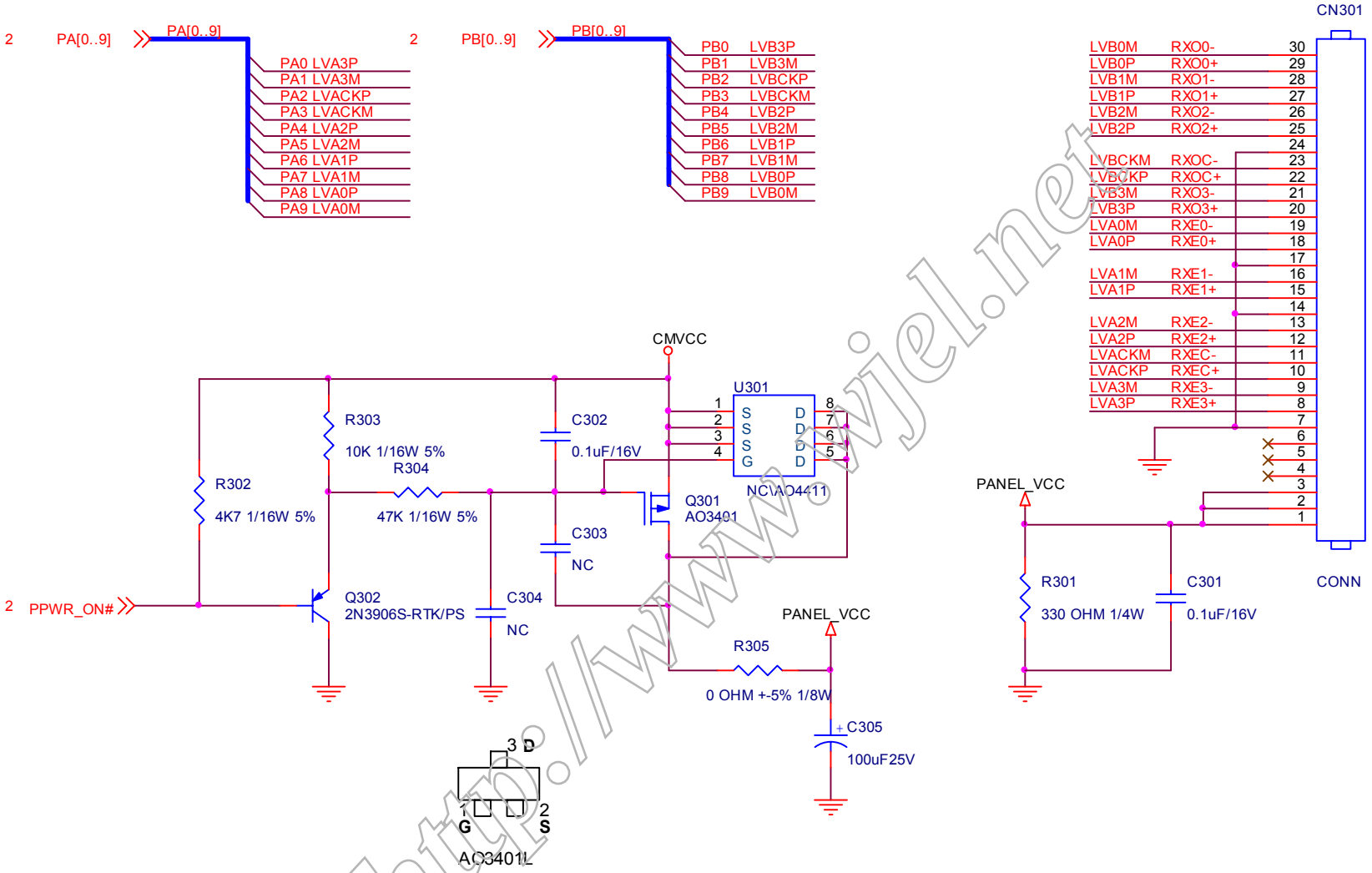

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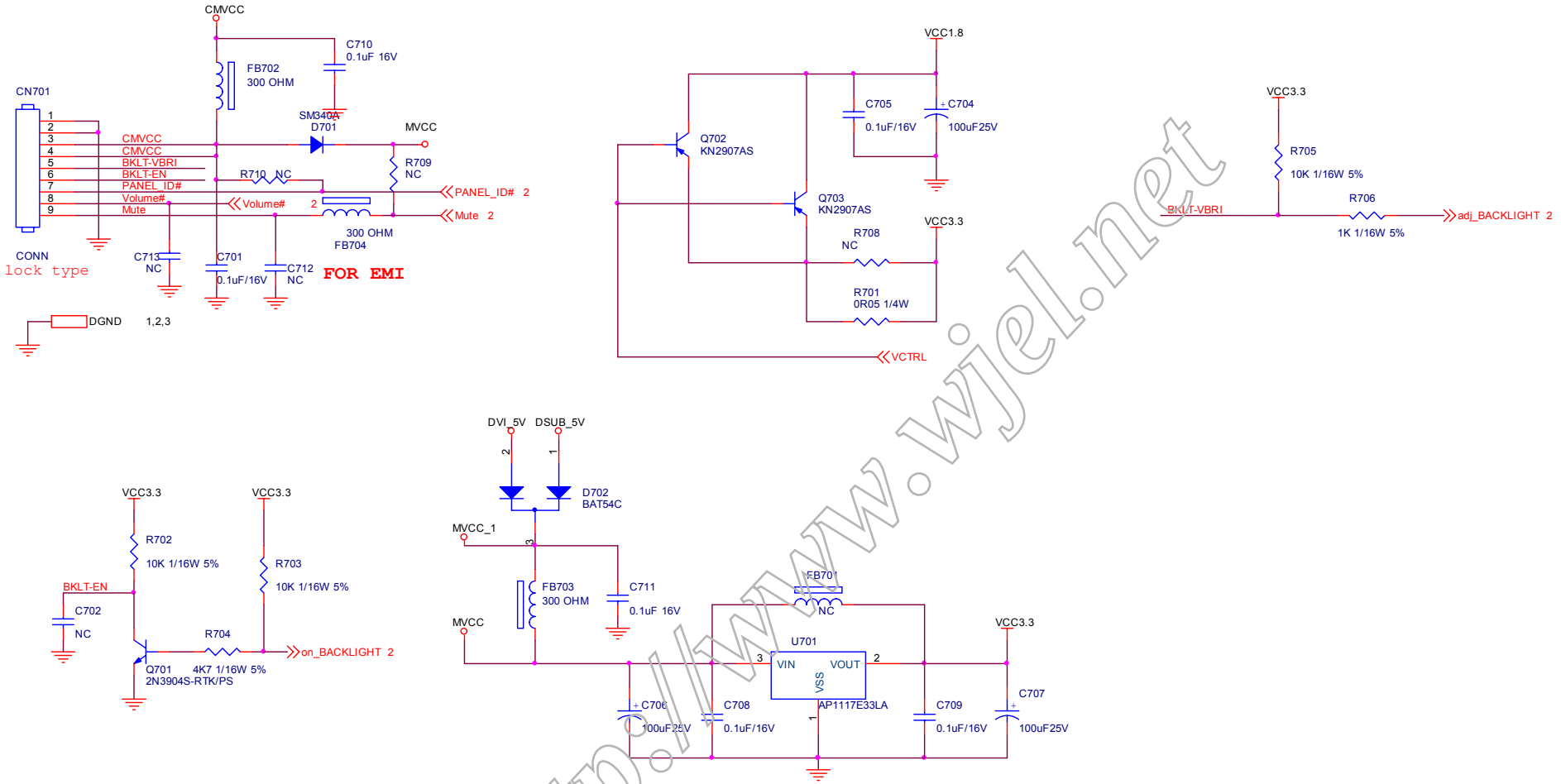
T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL	Lenovo L1900	Size	A
結 隔 瓜 絹 腹	G2883-1C-3-X-13-080916	TPV MODEL	T98*	Rev	1A
Key Component	3.0.OUTPUT	PCB NAME		称爹	<称爹>
Date	Tuesday , September 16, 2008	Sheet	3 of 6		



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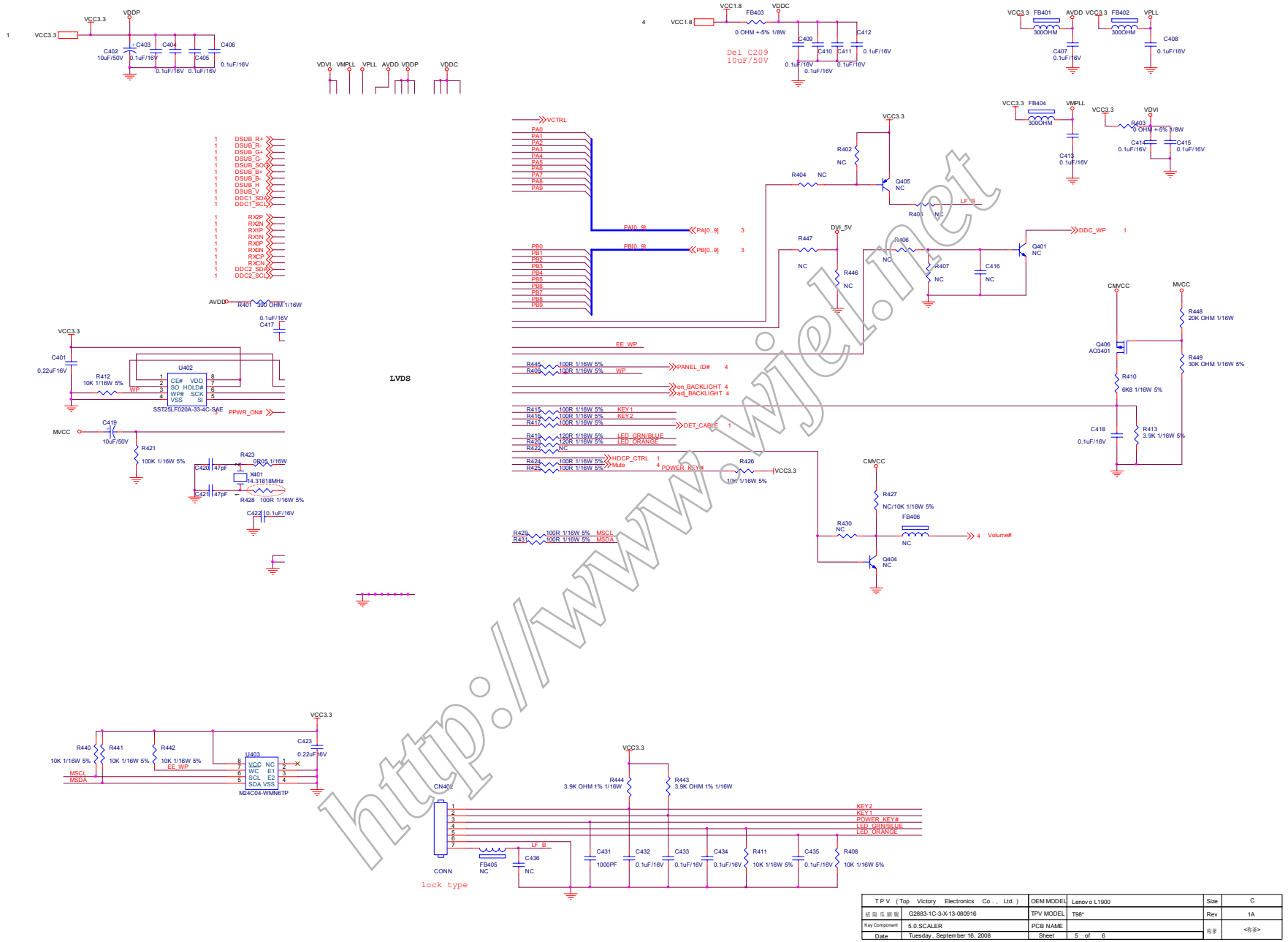
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	Lenovo L1900	Size	B
筮 隔 瓜 貎 腹	G2883-1C-3-X-13-080916	TPV MODEL	T98*	Rev	1A
Key Component	4.0.POWER	PCB NAME		称爹	<称爹>
Date	Tuesday, September 16, 2008	Sheet	4 of 6		



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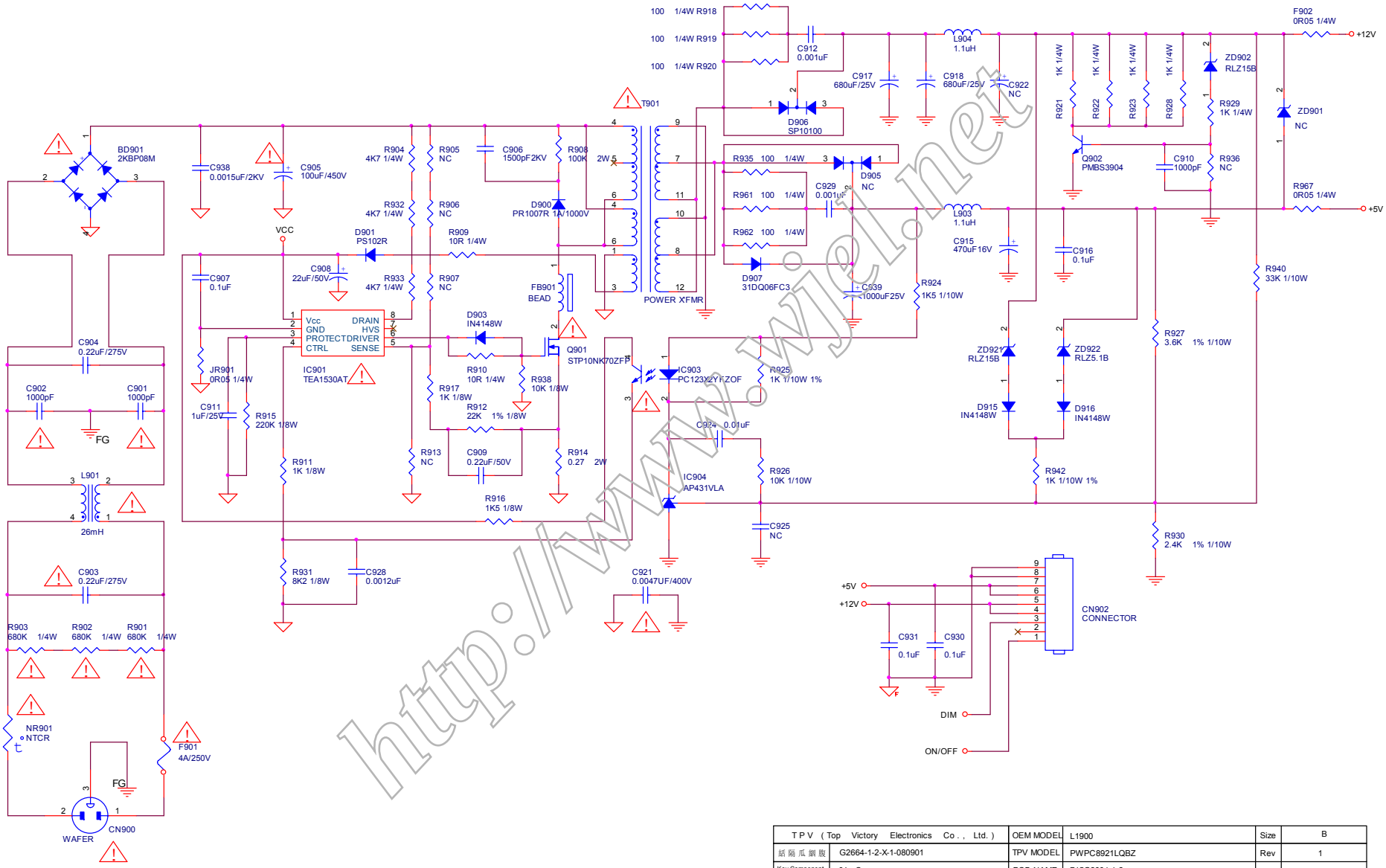
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	Lenovo L1900	Size	C
版 簡 瓜 腦 製	G2883-1C-3-X-13-080916	TPV MODEL	T98*	Rev	1A
Key Component	5.0.SCALER	PCB NAME		称 釜	<称釜>
Date	Tuesday , September 16, 2008	Sheet	5 of 6		

6.2 Power Board

715G2664-1-2



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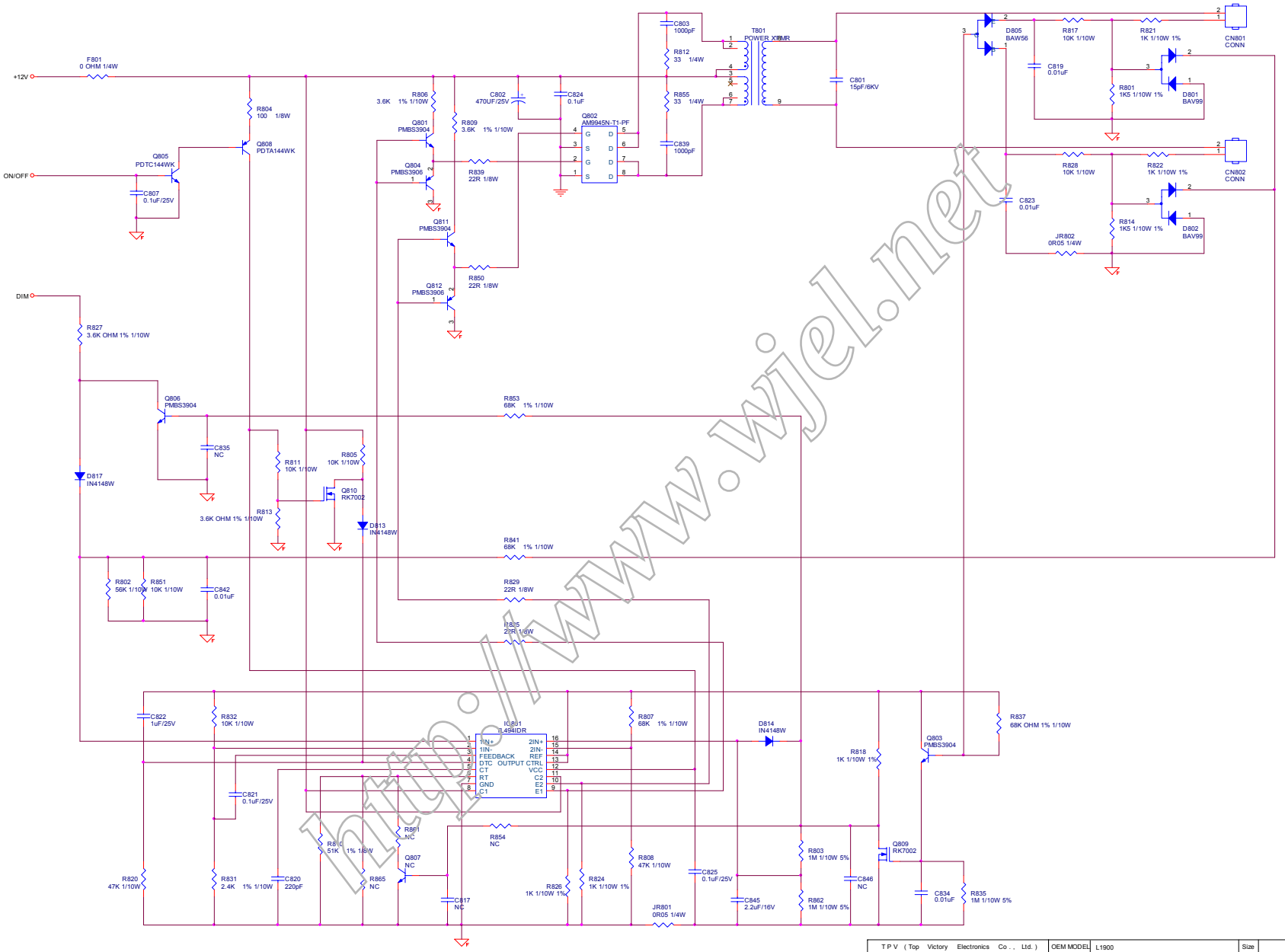
T P V （Top Victory Electronics Co., Ltd.）		OEM MODEL	L1900	Size	B
延 陽 瓜 銅 股	G2664-1-2-X-1-080901	TPV MODEL	PWPC8921LQBZ	Rev	1
Key Component	01、Cover	PCB NAME	715G2664-1-2	称签	<称签>
Date		Sheet	1 of 3		



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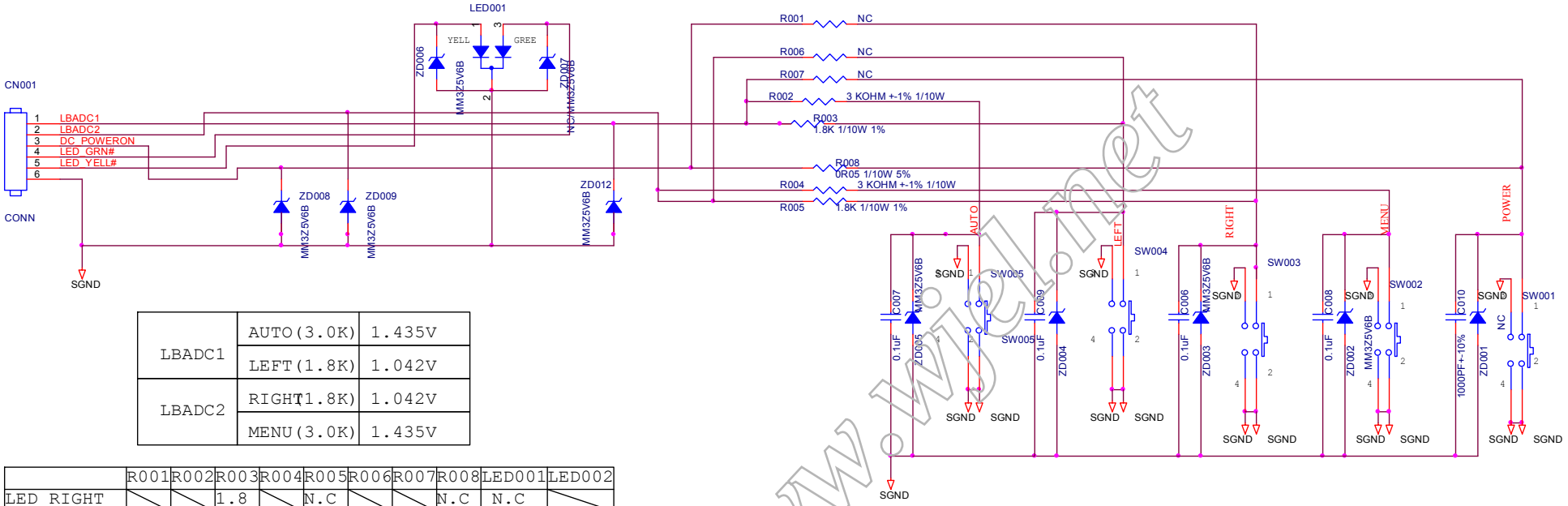
T P V （Top Victory Electronics Co ., Ltd.）		OEM MODEL	L1900	Size	Custom
延展瓜旗股	G2664-1-2-X-1-080901	TPV MODEL	PWPC8921LQBZ	Rev	1
Key Component	01、Cover	PCB NAME	715G2664-1-2		
Date		Sheet	1 of 3	标准	<标准>

6.3 Key Board

715G3282-1



LBADC1	AUTO(3.0K)	1.435V
	LEFT(1.8K)	1.042V
LBADC2	RIGHT(1.8K)	1.042V
	MENU(3.0K)	1.435V

	R001	R002	R003	R004	R005	R006	R007	R008	LED001	LED002
LED RIGHT			1.8		N.C			N.C	N.C	
LED MIDDLE	N.C					N.C	N.C			N.C

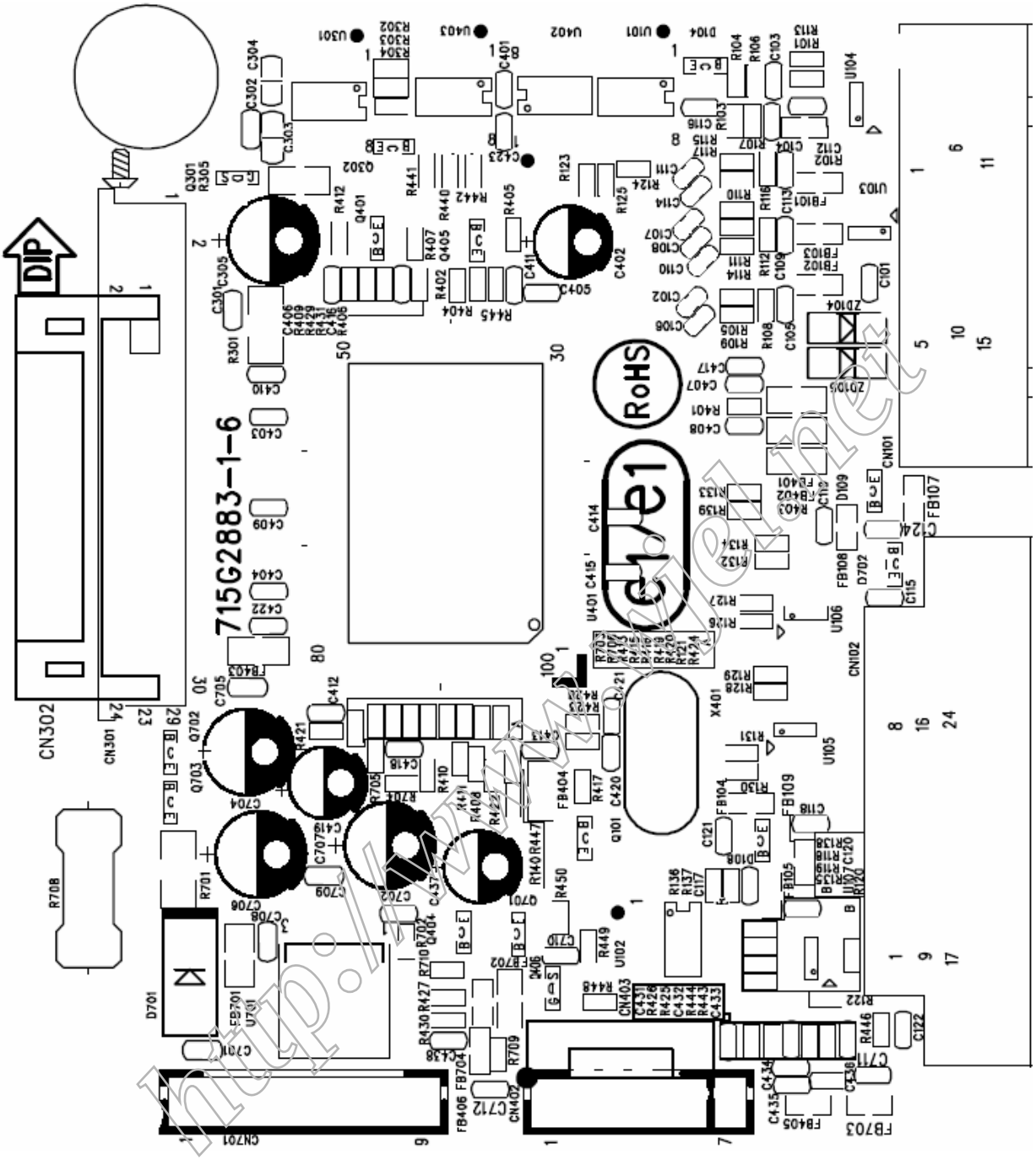
http://www.wiki.net

T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	LEN L1900P	Size	B
結 隔 瓜 網 腹	G3282-1-X-X-1-080916	TPV MODEL	LEN L1900P	Rev	A
Key Component	02.Key-pad-switch	PCB NAME	715G****	称多	<称多>
Date	Tuesday, September 16, 2008	Sheet	1 of 2		

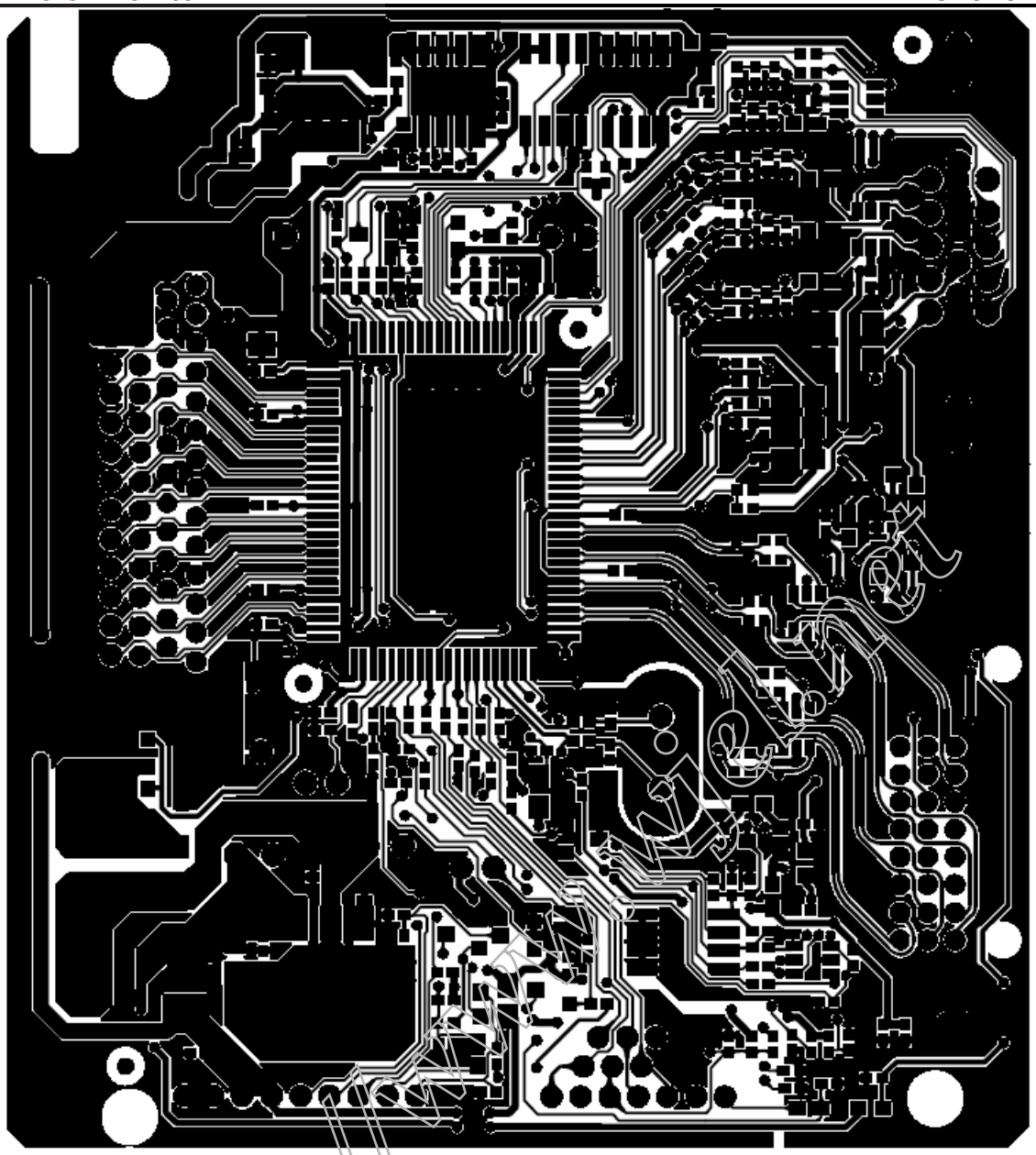
7. PCB Layout

7.1 Main Board

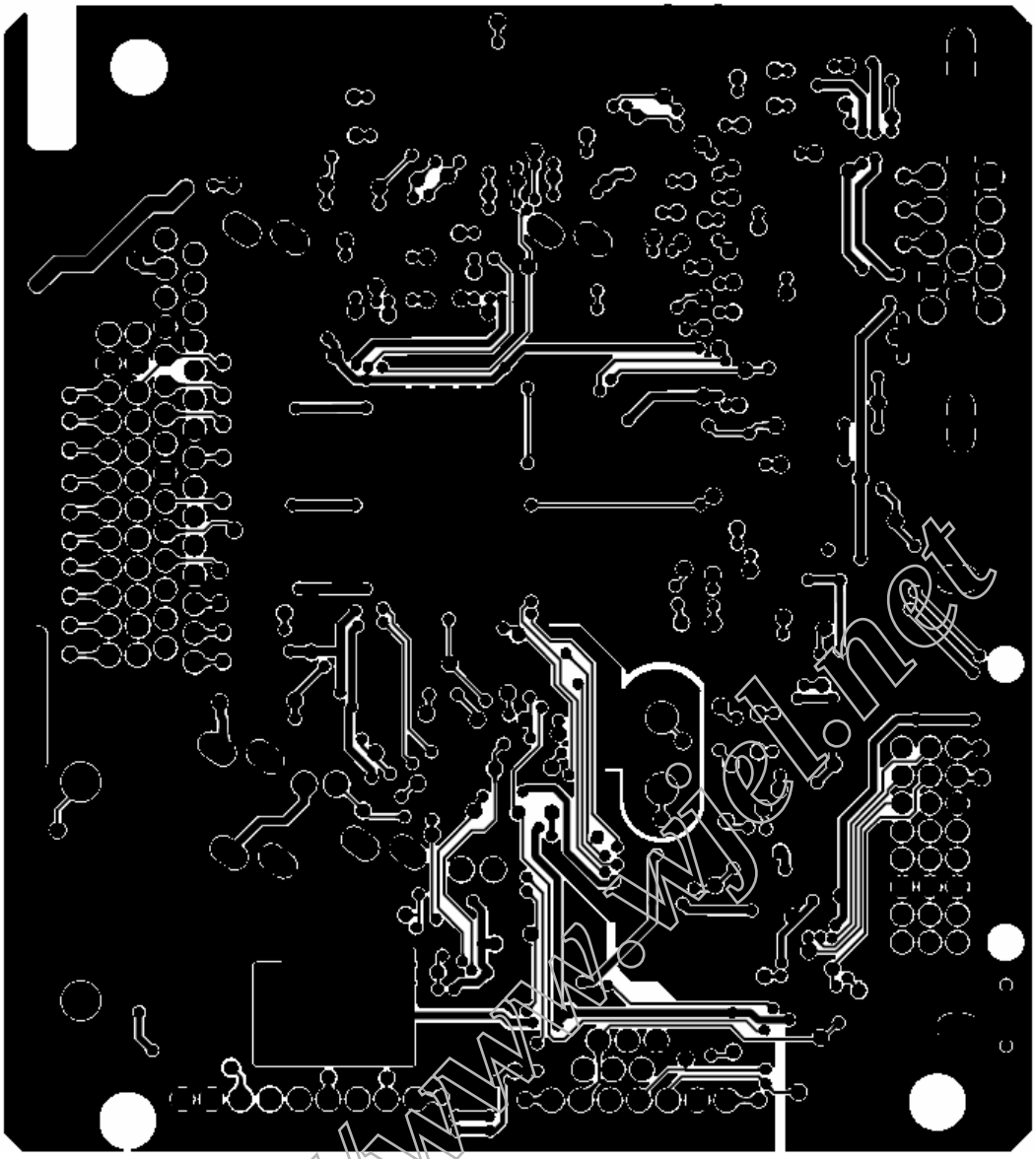
715G2883-1-6



http://www.vinet.net



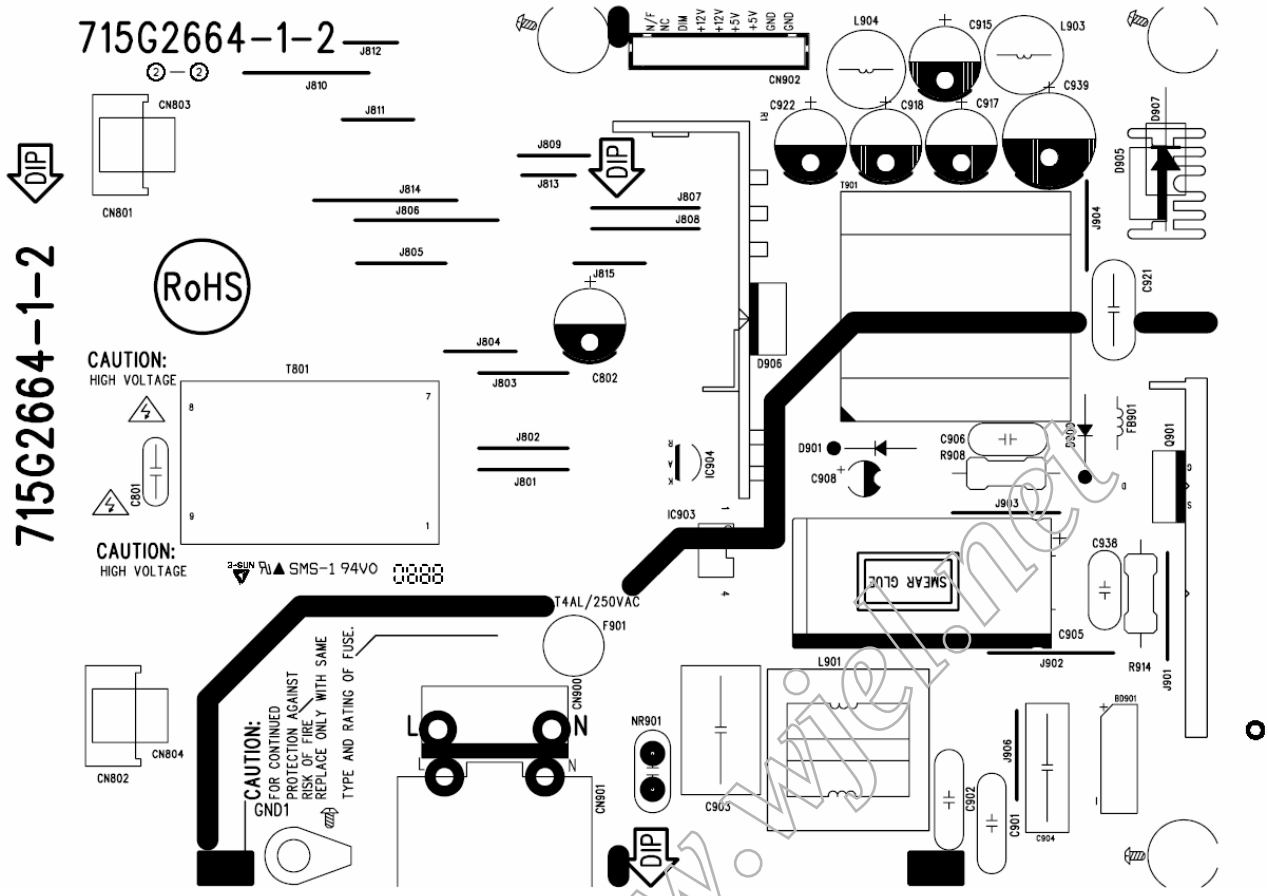
http://www.xiexie.com



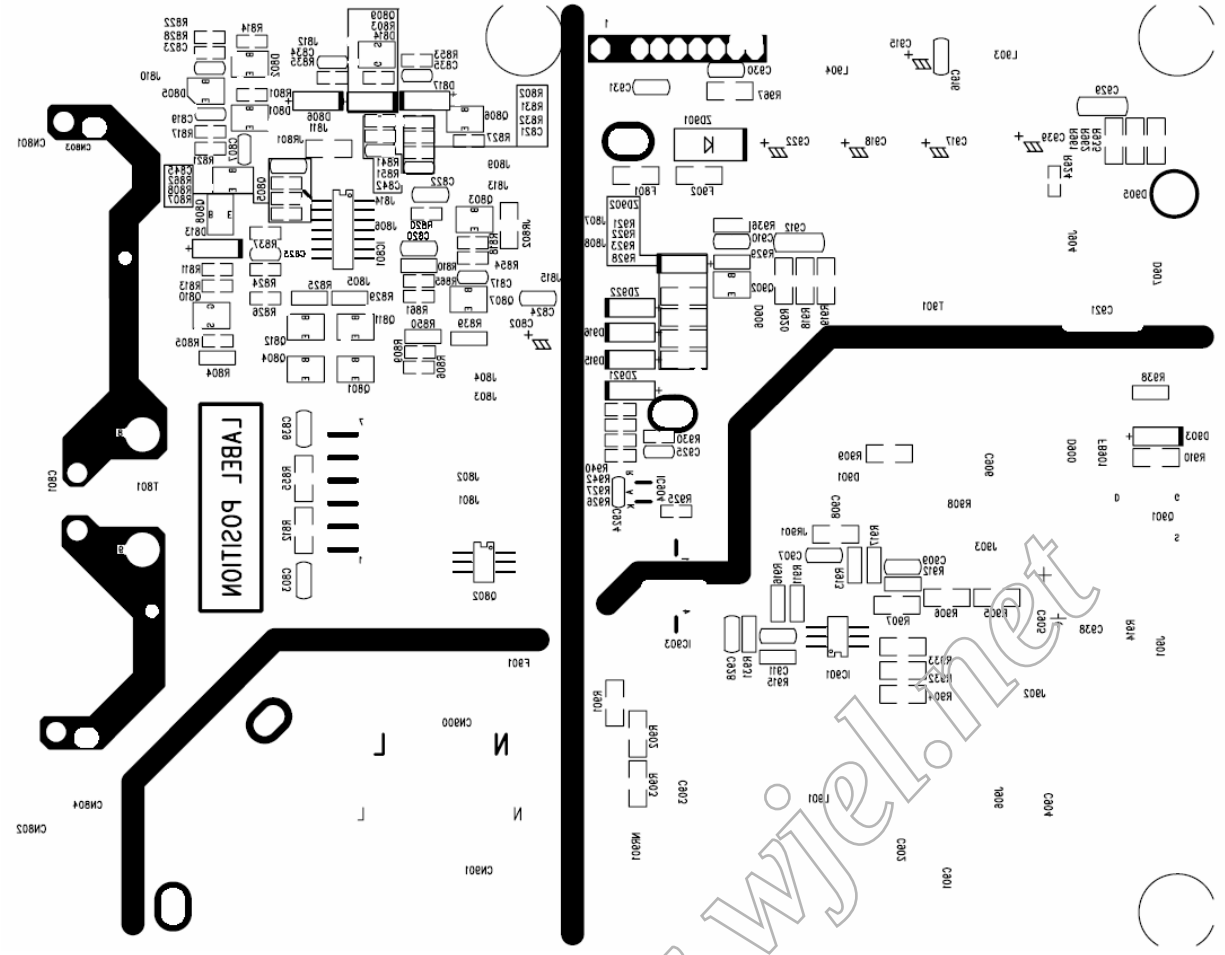
http://www.wel.net

7.2 Power Board

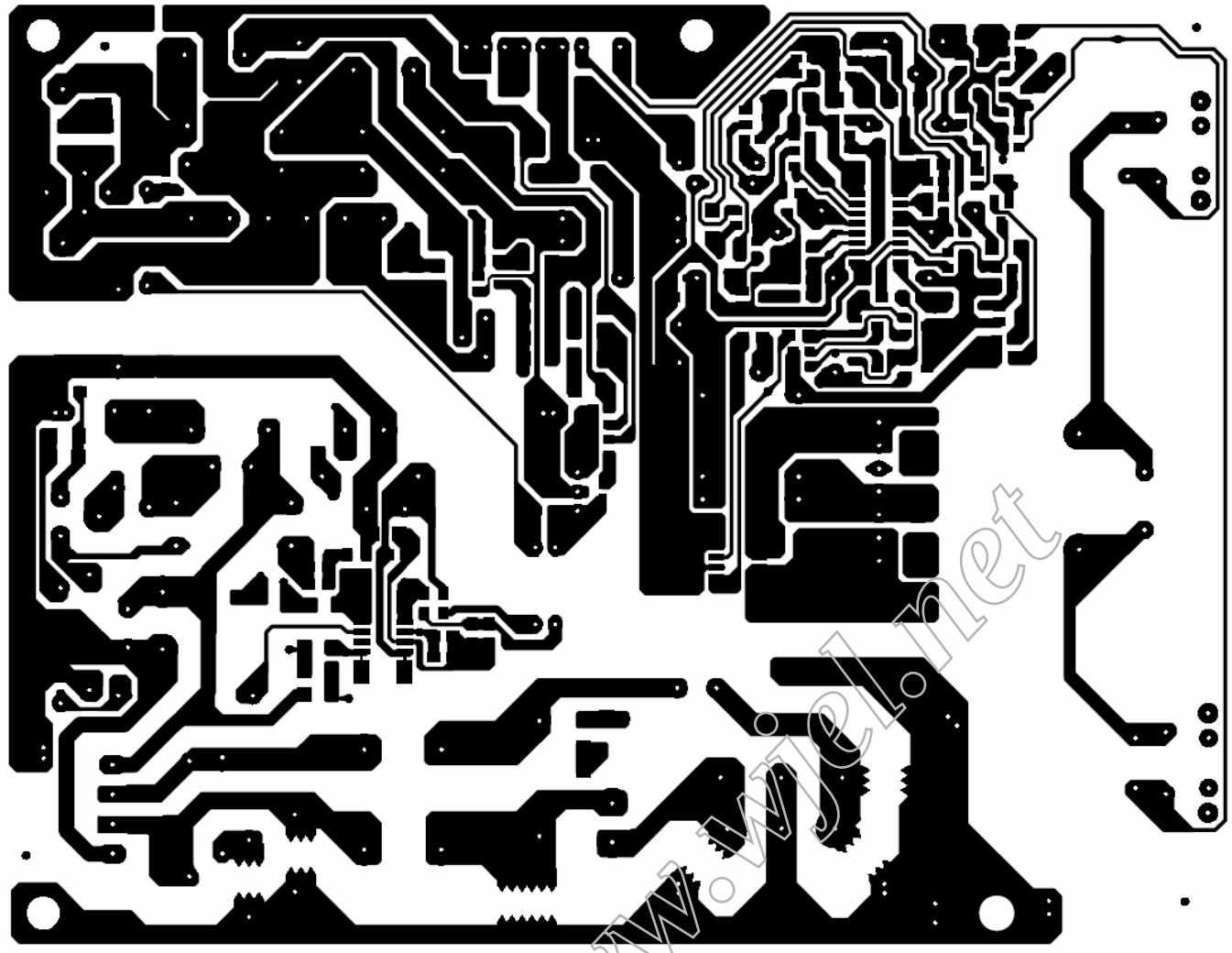
715G2664-1-2



http://www.wiki.net



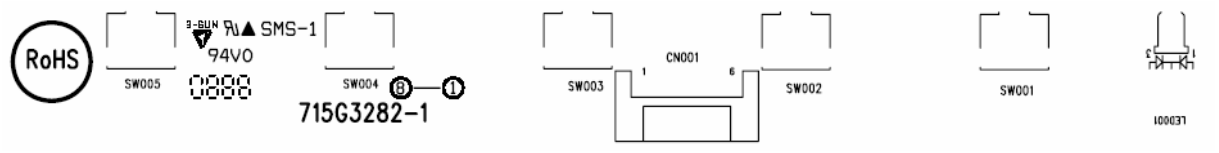
http://www.wjel.net

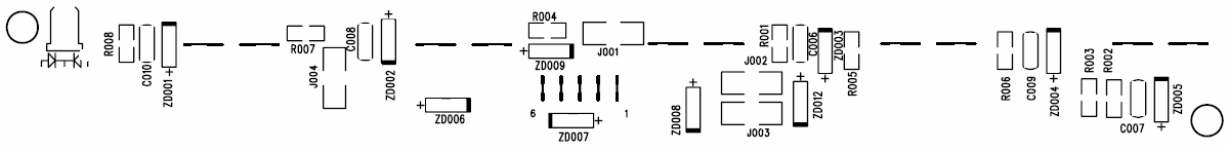


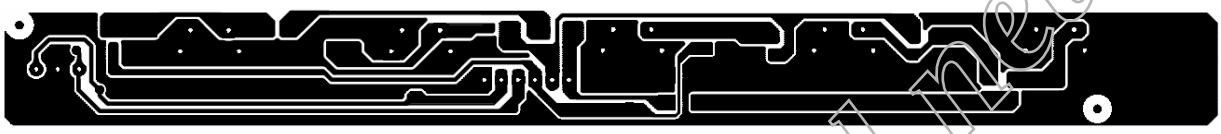
http://www.wel.net

7.3 Key Board

715G3282-1







http://www.wjel.net

8. Maintainability

8.1 Equipments and Tools Requirement

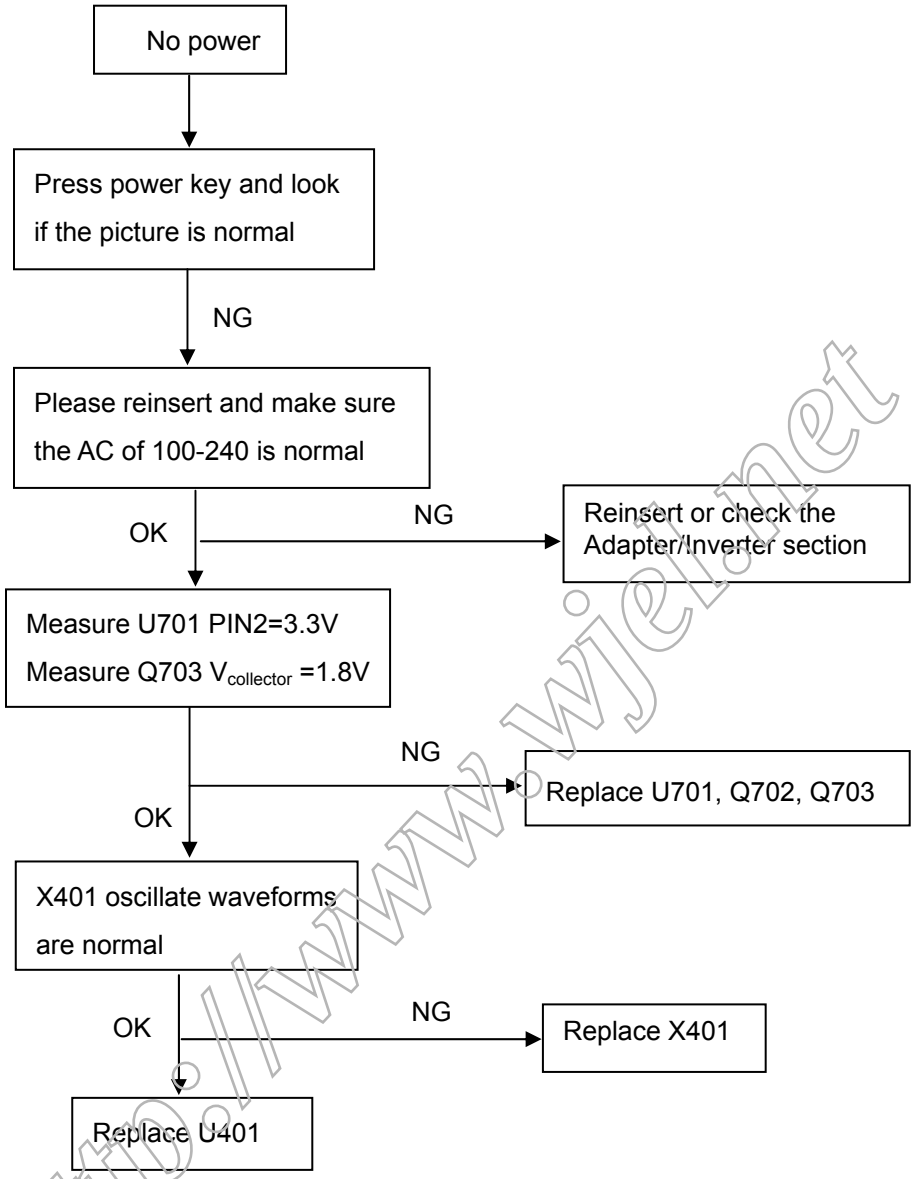
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

http://www.wjel.net

8.2 Trouble Shooting

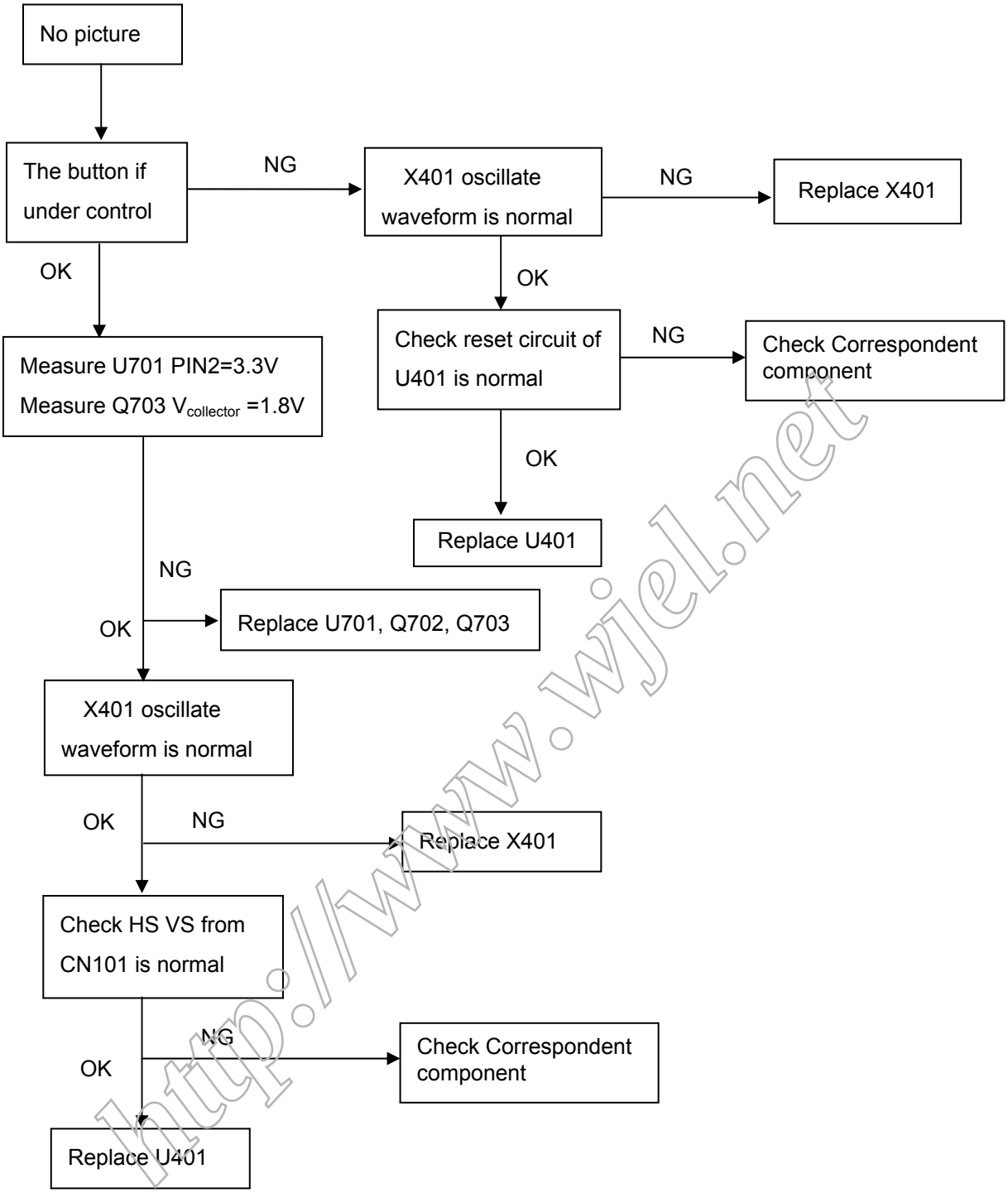
8.2.1 Main Board

(1). No Power



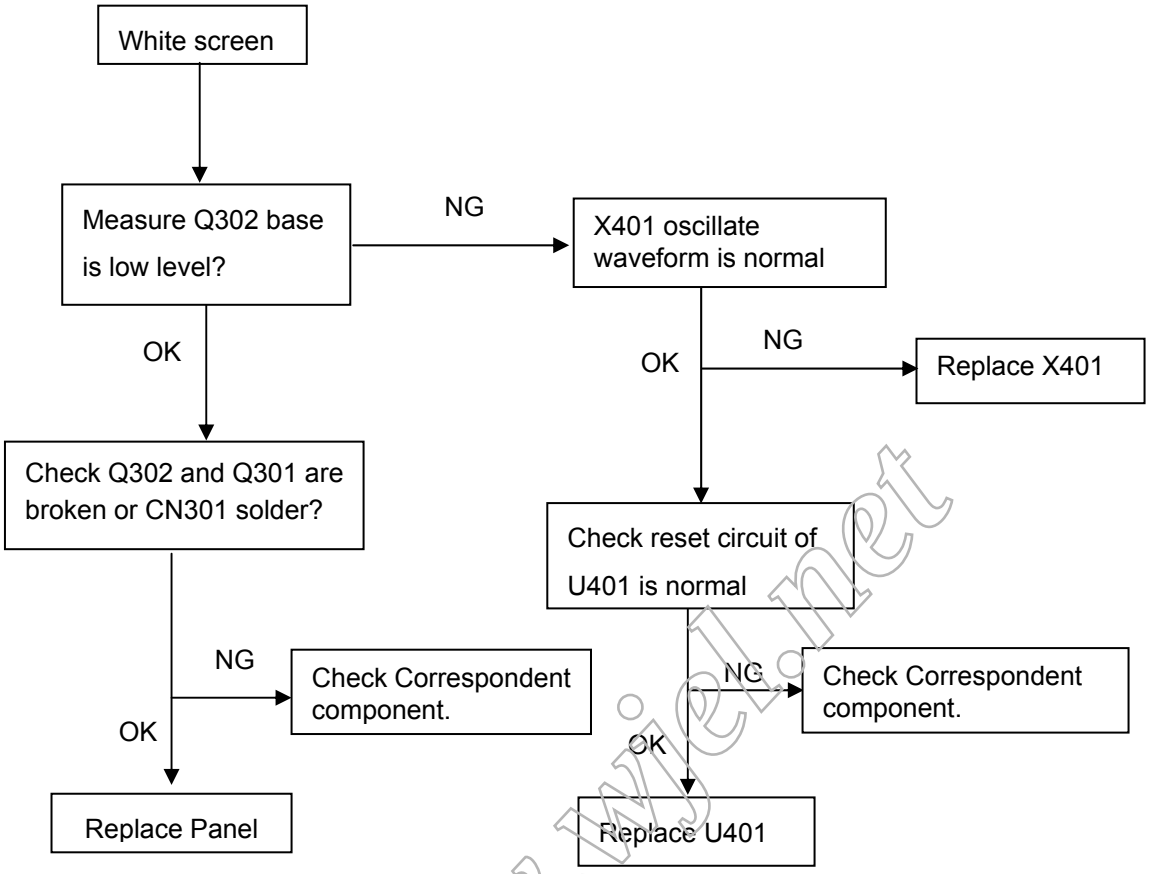
http://www.wjel.net

(2). No Picture



http://www.wjel.net

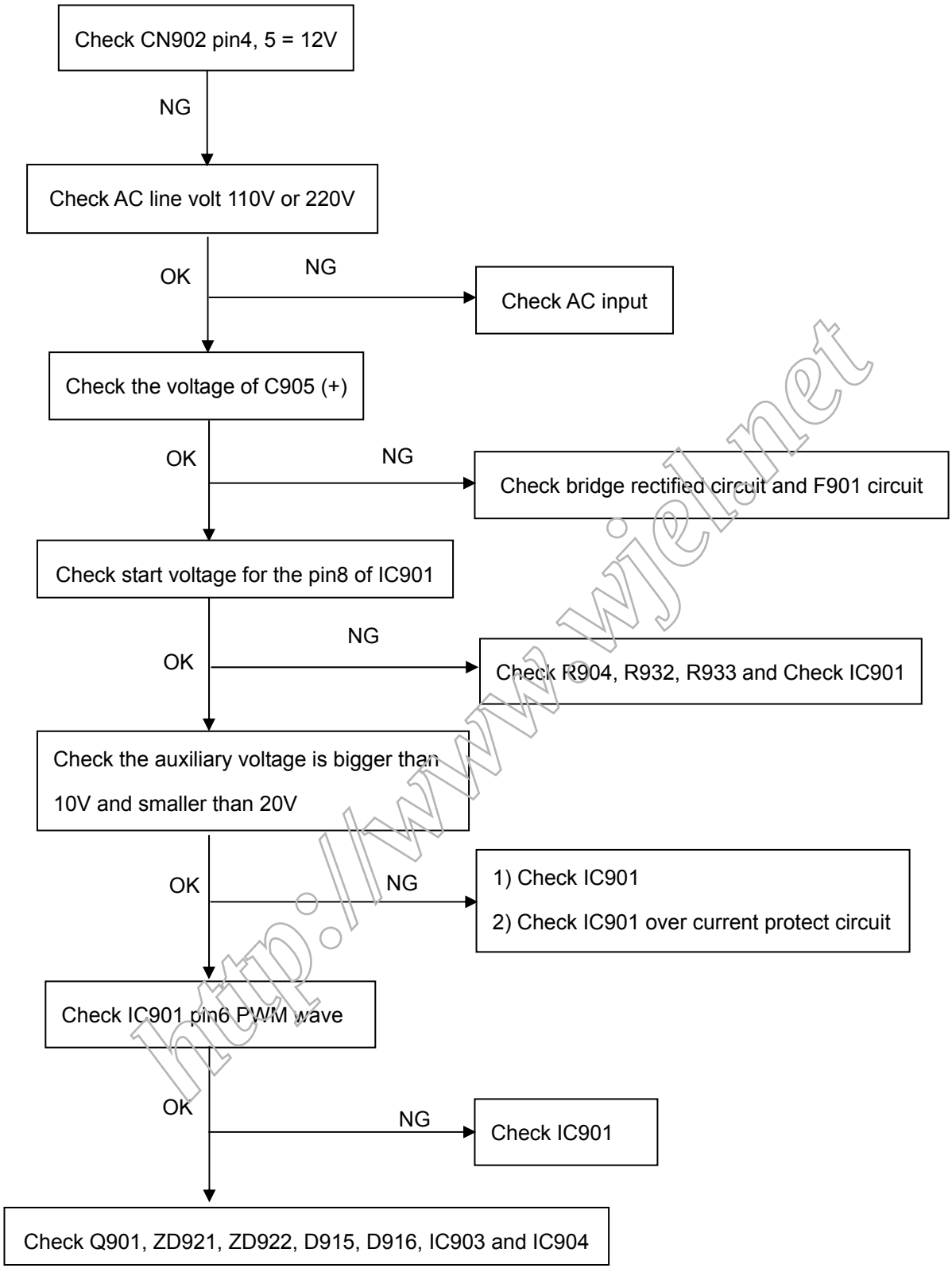
(3). White screen



http://www.wjel.net

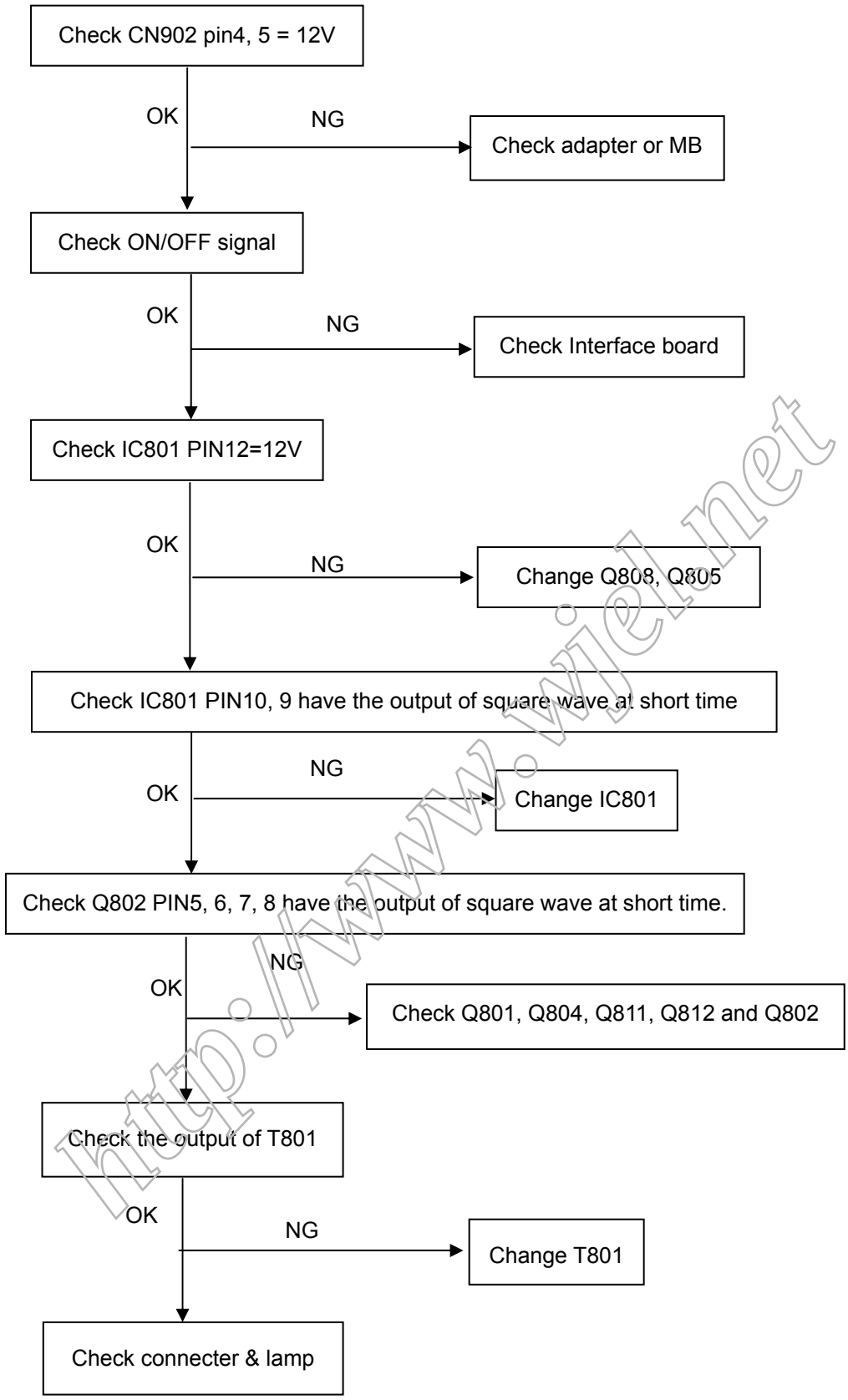
8.2.2 Power/Inverter Board

1.) No power



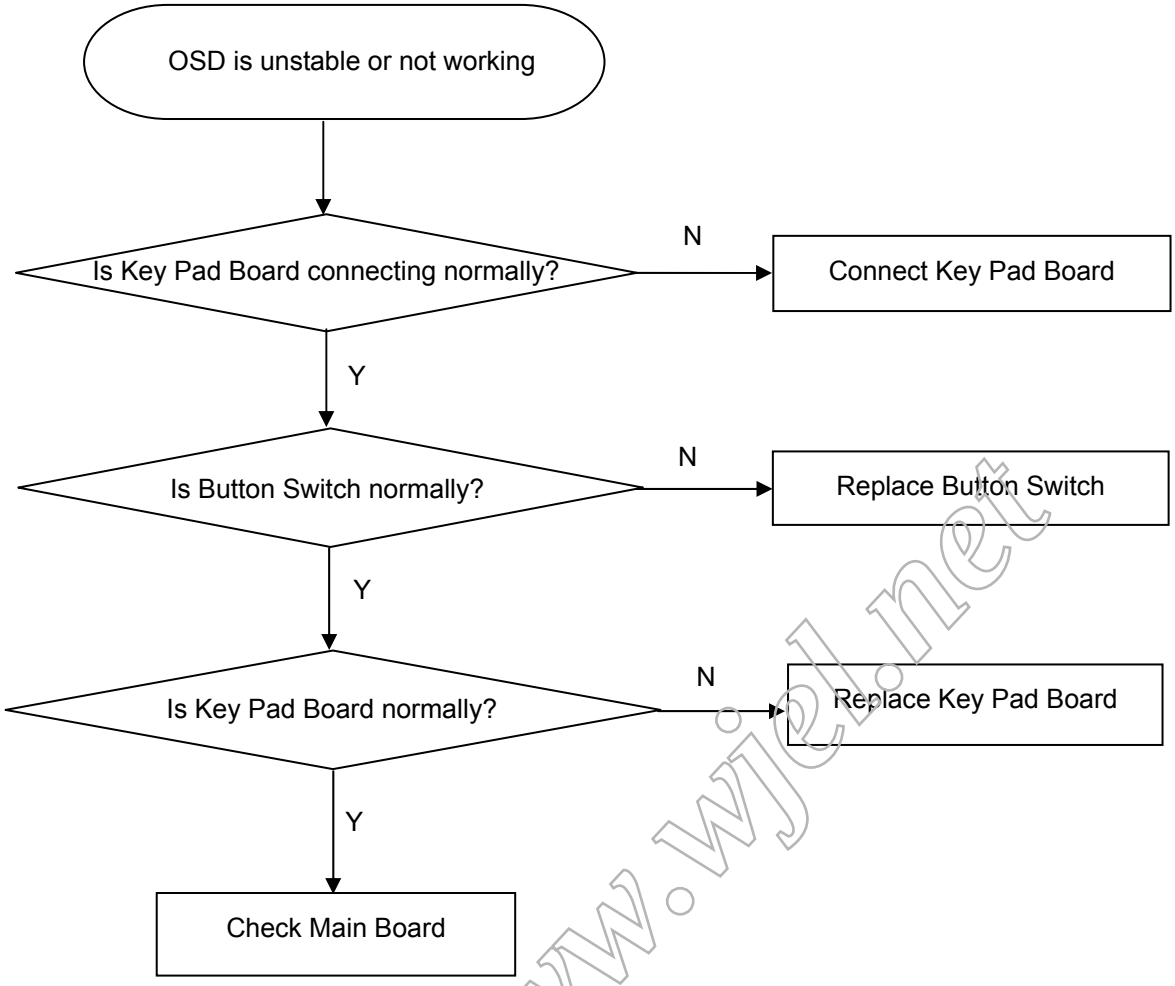
http://www.wjel.net

2.) W / LED, No Backlight



http://www.wiel.net

8.2.3 Key Board



http://www.wjcl.net

9. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance , please set the Chroma-7120 MEM Channel 3 to Reddish (6500K) color, MEM Channel 4 to Default (7200K) color, MEM Channel 9 to Bluish (9300K) color , and MEM Channel 10 to sRGB color (our Reddish color parameter is x = 313 ± 20, y = 329 ± 20, Y=180± 20cd/m^2; Default color parameter is x = 302 ± 20, y = 318 ± 20, Y=180± 20cd/m^2; Bluish color parameter is x = 283 ± 20, y = 297 ± 20, Y=180± 20cd/m^2; sRGB color parameter is x = 313 ± 20, y = 329 ± 20, Y=180± 20cd/m^2)

How to setting MEM channel you can reference to chroma 7120 user guide or simple use " SC" key and " NEXT" Key to modify xyY value and use "ID" key to modify the TEXT description Following is the procedure to do white-balance adjust .

2. Setting the color temp. you want

A. MEM.CHANNEL 3 6500K (Reddish color):

Reddish color temp.parameter is x = 313 ± 20, y = 329 ± 20, Y=180± 20cd/m^2

B. MEM.CHANNEL 4 7200K (Default color):

Default color temp, parameter is x = 302 ± 20, y = 318 ± 20, Y=180± 20cd/m^2

C. MEM.CHANNEL 9 9300K (Bluish color):

Bluish color temp, parameter is x = 283 ± 20, y = 297 ± 20, Y=180± 20cd/m^2

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is x = 313 ± 20, y = 329 ± 20, Y=180± 20cd/m^2

3. Into Factory mode of Lenovo L1900P_4431-HE1-HS1:

Press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Bias adjustment:

Set the **Contrast** to 50; Adjust the **Brightness** to 80.

5. Gain adjustment:

Move cursor to "-F-" and press MENU key

A. Adjust Reddish (6500K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ± 20, y = 329 ± 20, Y=180± 20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

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B. Adjust Default (7200K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 302 ± 20, y = 318 ± 20, Y=180± 20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

C. Adjust Bluish (9300K) color-temperature

1. Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 283 ± 20, y = 297 ± 20, Y=180± 20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

D. Adjust sRGB color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ± 20, y = 329 ± 20, Y=180± 20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

E. Turn the Power-button off to quit from factory mode.

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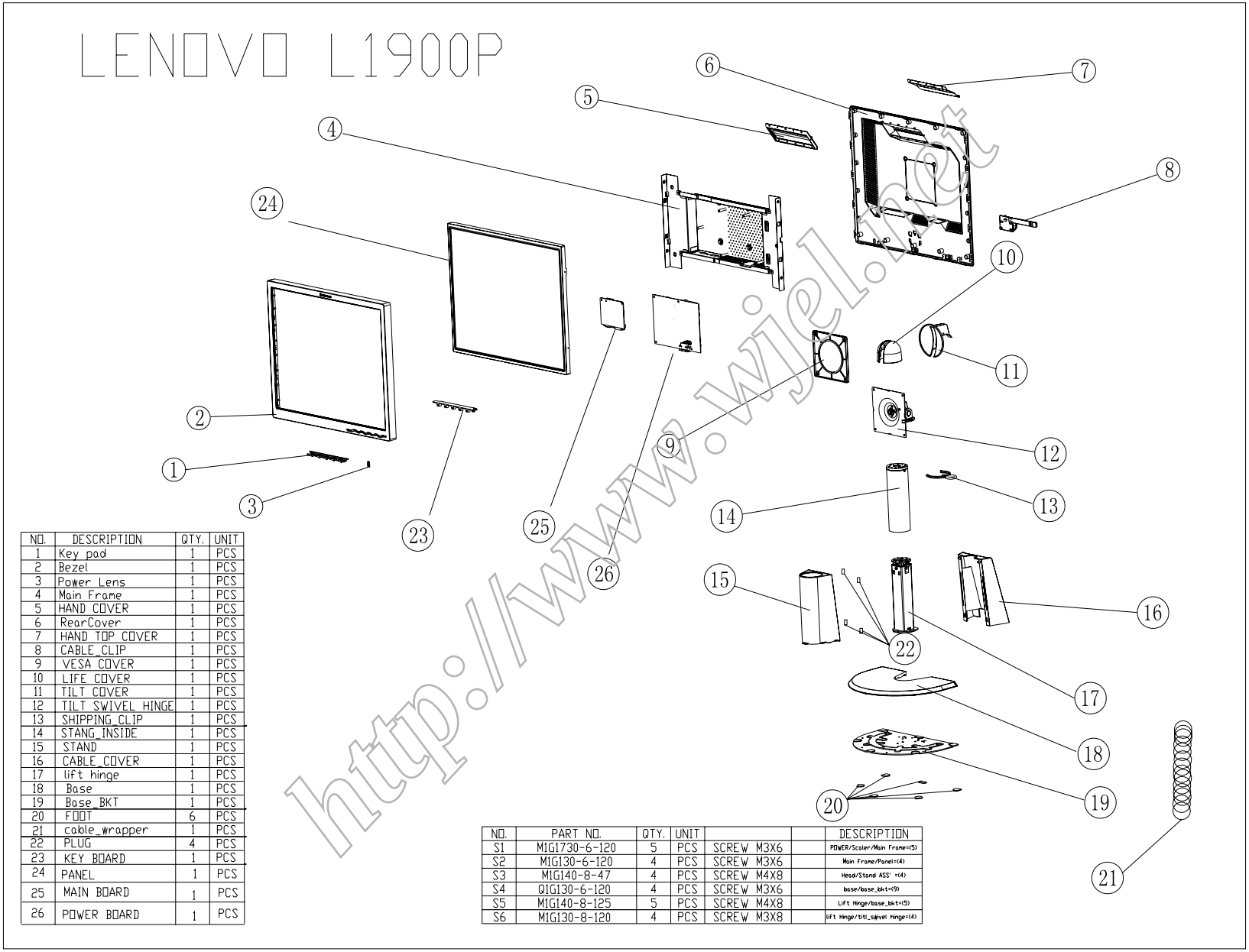
10. Monitor Exploded View



NO.	DESCRIPTION	QTY.	UNIT
1	Key pad	1	PCS
2	Bezel	1	PCS
3	Power Lens	1	PCS
4	Main Frame	1	PCS
5	HAND COVER	1	PCS
6	RearCover	1	PCS
7	HAND TOP COVER	1	PCS
8	CABLE_CLIP	1	PCS
9	VESA COVER	1	PCS
10	LIFE COVER	1	PCS
11	TILT COVER	1	PCS
12	TILT SWIVEL HINGE	1	PCS
13	SHIPPING_CLIP	1	PCS
14	STANG_INSIDE	1	PCS
15	STAND	1	PCS
16	CABLE_COVER	1	PCS
17	lift hinge	1	PCS
18	Base	1	PCS
19	Base_BKT	1	PCS
20	FOOT	6	PCS
21	cable_wrapper	1	PCS
22	PLUG	4	PCS
23	KEY BOARD	1	PCS
24	PANEL	1	PCS
25	MAIN BOARD	1	PCS
26	POWER BOARD	1	PCS

NO.	PART NO.	QTY.	UNIT			DESCRIPTION
S1	M1G1730-6-120	5	PCS	SCREW M3X6		POWER/Scaler/Main Frame=(5)
S2	M1G130-6-120	4	PCS	SCREW M3X6		Main Frame/Panel=(4)
S3	M1G140-8-47	4	PCS	SCREW M4X8		Head/Stand ASS'=(4)
S4	Q1G130-6-120	4	PCS	SCREW M3X6		base/base_bkt=(9)
S5	M1G140-8-125	5	PCS	SCREW M4X8		Lift Hinge/base_bkt=(5)
S6	M1G130-8-120	4	PCS	SCREW M3X8		Lift Hinge/tilt_swivel hinge=(4)

11. BOM List

T9RGM6DKKCH2HC

Location	Part No.	Description	Remark
	050G 600 1 W	WHITE STRAP	
	052G 1150 C	INSULATING TAPE	
	052G 1186	SMALL TAPE	
	052G 1211503	ALUMINUM FOIL TAPE	
	052G6019 1	INSULATING TAPE	
	070GHDCP500HDC – MSTAR HDCP	HDCP CODE	
E08902	089G 728CAA 1	SIGNAL CABLE D-SUB COMLINK	
E08902	089G 728GAA 1	D-SUB CABLE 1800MM YW0308	2nd source
E08902	089G 728HAA 1	SIGNAL CABLE	2nd source
E08903	089G1748CAA AC	SIGNAL CABLE DVI COMLINK	2nd source
E08903	089G1748GAA AC	SIGNAL CABLE DVI GREATLAND	2nd source
E08903	089G1748HAA AC	DVI CABLE	
	089G402A18NLSM	POWER CORD	
E09502	095G8014 6WH42	HARNESS 6P(PH)-6P(PH) 260MM	2nd source
E09502	095G8014 6XH42	HARNESS 6P(PH)-6P(PH) 260MM	
	0M1G 130 6120	SCREW M3X6	
	0M1G1730 6120	SCREW,42-D020523	
	0M1G2940 8225 CR3	SCREW	
E750	750GLG190E8J11N0LX	PANEL LM190E08-TLJ1 KR LGD	
E750	750GLG190E8J23N0LX	PANEL LM190E08-TLJ2 GZ LGD	2nd source
	756GQ8CB LL015	MAIN BOARD-CBPCRM6G9QA	
U402	056G1133 81	SST25LF020A-33-4C-SAE	
SMTCR-U402	100GLMG9003N11	MCU ASS'Y-056G1133 81	
	040G 45762412B	CBPC LABEL	
CN402	033G3802 6	WAFER	
CN701	033G3802 9	WAFER 9P RIGHT ANELE PITCH	
CN301	033G801930F CH JS	CONNECTOR	
C419	067G 3151007KV	ELCAP 10UF M 50V 105℃ KINGNICHI	
CN101	088G 35315F H	D-SUB 15PIN	2nd source
CN101	088G 35315F HD	D-SUB CONN F ATTACHED SCREW	
CN102	088G 35424F D	DVI 24PIN CONN F ATTACHED SCREW	
CN102	088G 35424F N	DVI 24PIN CONN F WITH SCREWS	2nd source
X401	093G 22 53 J	14.31818MHZ/32PF/49US	
C402	067G 3151007KB	EC 10uF M 50V 5*11	
C305	067G 3151014KB	EC 100uF M 25V 6.3*11	
C707	067G 3151014KB	EC 100uF M 25V 6.3*11	

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C706	067G 3151014KB	EC 100uF M 25V 6.3*11	
C704	067G 3151014KB	EC 100uF M 25V 6.3*11	
C402	067G 4051007PB	EC 10uF M 50V 5*11mm	
C305	067G 4051014PB	EC 100uF M 25V 6.3*11mm	
C704	067G 4051014PB	EC 100uF M 25V 6.3*11mm	
C706	067G 4051014PB	EC 100uF M 25V 6.3*11mm	
C707	067G 4051014PB	EC 100uF M 25V 6.3*11mm	
U401	056G 562558	IC TSUM5PFHL-LF	
U103	056G 662501	IC ESD AZ1015-04S	
U104	056G 662501	IC ESD AZ1015-04S	
U105	056G 662501	IC ESD AZ1015-04S	
U106	056G 662501	IC ESD AZ1015-04S	
U107	056G 662501	IC ESD AZ1015-04S	
U103	056G 662502	IC ESD AZC199-04S SOT23-6L	
U104	056G 662502	IC ESD AZC199-04S SOT23-6L	
U105	056G 662502	IC ESD AZC199-04S SOT23-6L	
U106	056G 662502	IC ESD AZC199-04S SOT23-6L	
U107	056G 662502	IC ESD AZC199-04S SOT23-6L	
U403	056G1133 32	IC M24C04-WMN6TP SO8	
U402	056G1133 81	SST25LF020A-33-4C-SAE	
U701	056T 585 4A	AP1117E33LA	
Q701	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q302	057G 417 13 T	KEC 2N3906S-RTK/PS	
Q702	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q703	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q701	057G 417511	MMBT3904	
Q302	057G 417512	MMBT3906	
Q301	057G 763 1	A03401 SOT23 BY AOS(A1)	
Q406	057G 763 1	A03401 SOT23 BY AOS(A1)	
R423	061G0402000	RST CHIPR 0 OHM +-5% 1/16W	
R134	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R132	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R131	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R130	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R129	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R128	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R127	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R126	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R101	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R105	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	

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R109	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R111	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R445	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R431	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R429	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R428	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R425	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R424	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R417	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R416	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R415	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R409	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R119	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R118	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R117	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R115	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R114	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R113	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R706	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R104	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R103	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R705	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R703	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R702	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R442	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R441	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R440	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R426	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R413	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R412	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R411	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R303	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R135	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R133	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R120	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R421	061G0402104	RST CHIPR 100 KOHM +-5% 1/16W	
R419	061G0402121	RST CHIP 120R 1/16W 5%	
R420	061G0402121	RST CHIP 120R 1/16W 5%	
R448	061G0402203	RST CHIP 20K 1/16W 5%	

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R106	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R107	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R449	061G0402303	RST CHIPR 30 KOHM +-5% 1/16W	
R401	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R443	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R444	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R110	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R124	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R125	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R137	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R138	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R302	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R704	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R304	061G0402473	RST CHIPR 47 KOHM +-5% 1/16W	
R139	061G0402682	RST CHIP 6K8 1/16W 5%	
R410	061G0402682	RST CHIP 6K8 1/16W 5%	
R116	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R112	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R108	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R102	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB403	061G0805000 F	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R305	061G0805000 F	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R403	061G0805000 F	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R701	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
R301	061G1206331	RST CHIPR 330 OHM +-5% 1/4W	
C107	065G0402102 32	1000PF +-10% 50V X7R	
C121	065G0402102 32	1000PF +-10% 50V X7R	
C122	065G0402102 32	1000PF +-10% 50V X7R	
C431	065G0402102 32	1000PF +-10% 50V X7R	
C711	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C710	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C124	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C115	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C301	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C302	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C403	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C404	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C405	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C407	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	

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C408	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C709	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C708	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C705	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C701	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C435	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C434	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C433	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C432	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C422	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C418	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C417	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C415	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C414	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C413	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C412	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C411	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C409	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C104	065G0402220 31	CHIP 22PF 50V NPO	
C103	065G0402220 31	CHIP 22PF 50V NPO	
C423	065G0402224 17	CAP CER 0.22UF -20%-80%	
C401	065G0402224 17	CAP CER 0.22UF -20%-80%	
C421	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C420	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C102	065G0402473 12	CHIP 0.047uF 16V X7R	
C106	065G0402473 12	CHIP 0.047uF 16V X7R	
C108	065G0402473 12	CHIP 0.047uF 16V X7R	
C110	065G0402473 12	CHIP 0.047uF 16V X7R	
C111	065G0402473 12	CHIP 0.047uF 16V X7R	
C114	065G0402473 12	CHIP 0.047uF 16V X7R	
C105	065G0402509 31	CHIP 5pF 50V NPO	
C109	065G0402509 31	CHIP 5pF 50V NPO	
C113	065G0402509 31	CHIP 5pF 50V NPO	
FB702	071G 56G301 EA	BEAD 300 OHM	
FB401	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB402	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB404	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB104	071G 59G301	CHIP BEAD 300OHM	
FB105	071G 59G301	CHIP BEAD 300OHM	

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FB107	071G 59G301	CHIP BEAD 300OHM	
FB108	071G 59G301	CHIP BEAD 300OHM	
FB109	071G 59G301	CHIP BEAD 300OHM	
FB703	071G 59G301	CHIP BEAD 300OHM	
FB704	071G 59G301	CHIP BEAD 300OHM	
FB102	071G 59K190 B	19 OHM BEAD	
FB103	071G 59K190 B	19 OHM BEAD	
FB101	071G 59K190 B	19 OHM BEAD	
D104	093G 60505	DIO SIG SM BAT54C(PHSE)R	
D108	093G 60505	DIO SIG SM BAT54C(PHSE)R	
D109	093G 60505	DIO SIG SM BAT54C(PHSE)R	
D702	093G 60505	DIO SIG SM BAT54C(PHSE)R	
ZD104	093G 39GA01 T	RLZ5.6B	
ZD105	093G 39GA01 T	RLZ5.6B	
D701	093G3004 3	SM340A	
	715G2883 1 6	MAIN BOARD PCB FR-4 D/S 80X72MM	
	KEPC9QQ9	KEY BOARD G3282-1-X-X-1-080916	
CN001	033G3802 6H	WAFER 6P RIGHT ANGLE PITCH 2.0	
SW004	077G 602 1 CJ	TACT SWITCH	
SW005	077G 602 1 CJ	TACT SWITCH	
SW001	077G 602 1 CJ	TACT SWITCH	
SW002	077G 602 1 CJ	TACT SWITCH	
SW003	077G 602 1 CJ	TACT SWITCH	
LED001	081G 121C1 GP	LED GP32032CE/P310-ZY-50-HB	
R008	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
R003	061G0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W	
R005	061G0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W	
R002	061G0603300 1F	RST CHIPR 3 KOHM +-1% 1/10W	
R004	061G0603300 1F	RST CHIPR 3 KOHM +-1% 1/10W	
J002	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
J003	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
J004	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
C010	065G0603102 32	1000PF +-10% 50V X7R	
C008	065G0603104 32	CHIP 0.1UF 50V X7R	
C007	065G0603104 32	CHIP 0.1UF 50V X7R	
C006	065G0603104 32	CHIP 0.1UF 50V X7R	
C009	065G0603104 32	CHIP 0.1UF 50V X7R	
ZD012	093G 39P599 T	MM3Z5V6B	
ZD009	093G 39P599 T	MM3Z5V6B	
ZD008	093G 39P599 T	MM3Z5V6B	

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ZD007	093G 39P599 T	MM3Z5V6B	
ZD006	093G 39P599 T	MM3Z5V6B	
ZD005	093G 39P599 T	MM3Z5V6B	
ZD004	093G 39P599 T	MM3Z5V6B	
ZD003	093G 39P599 T	MM3Z5V6B	
ZD002	093G 39P599 T	MM3Z5V6B	
	715G3282 1	KEY BOARD PCB FR-1 145X15MM	
	PWPC8921LQCJ	POWER BOARD G2664-A-2-X-1-080808	
	040G 45762412B	CBPC LABEL	
GND1	009G6005 1	GROUND TERMINAL	
CN803	033G8021 2E F	WAFER	
CN804	033G8021 2E F	WAFER	
IC903	056G 139 3A	IC PC123Y22FZ0F	
NR901	061G 58080 WT	8 OHM NCT	
R908	061G152M104 64	100KOHM 5% 2W	
R914	061G152M278 64	0.27 OHM 5% 2W	
C904	063G107K2246S1	X2 CAP 0.22UF K 275VAC	
C903	063G107K2246S1	X2 CAP 0.22UF K 275VAC	
C801	065G 6J1506ET	15PF 5% SL 6KV	
C901	065G305M1022BP	Y2 1000PF M 250VAC Y5P	
C902	065G305M1022BP	Y2 1000PF M 250VAC Y5P	
C921	065G306M4722BP	4700PF +-20% 400VAC	
C905	067G 40J10115K	EC CAP 100uF 450V 18*35mm	
C802	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES	
C917	067G215D6814KV	CAP 105℃ 680uF M 25V	
C918	067G215D6814KV	CAP 105℃ 680uF M 25V	
C939	067G215S1024KV	EC 105℃ CAP 1000UF M 25V	
C915	067G215S4713KV	EC 105℃ CAP 470UF M 16V	
L901	073G 174 65 H1	LINE FILTER 26mH MIN	
L901	073G 174 65 N1	LINE FILTER 26mH MIN	
L903	073G 253191 L	CHOKE COIL 1.1uH CC-007802	
L904	073G 253191 L	CHOKE COIL 1.1uH CC-007802	
T801	080GL19T 24 H	XFMR INVERTER 740mH DADON	
T801	080GL19T 24 YS	X'FMR 740mH YS04170157	
T901	080GL19T501 N	XFMR POWER 650uH+-5% YUVA	
CN901	087G 501 37 S	AC INLET ST-01DG-B2K-K	
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON	
D907	093G3006 1 1	31DQ06FC3 NIHON INTER	
CN902	095G 825 9D502	WIRE HARNESS 9P(SCN)-9P 220MM	
CN902	095G 825 9J502	WIRE HARNESS 9P(SCN)-9P	2nd source

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	705GQ757004	Q901 ASS'Y	
	051G 200 1	OIL FOR DISAPPEAR	
Q901	057G 667 21	STP10NK70ZFP	
	090G6263 1	HEAT SINK	
	0M1G1730 8120	SCREW	
	705GQ793060	D906 ASS'Y	
	051G 200 1	OIL FOR DISAPPEAR	
D906	093G 60218	SB10100FCT	
D906	093G 60267	SP10100	
	0M1G1730 8120	SCREW	
	Q90G0117 2	HEAT SINK	
IC801	056G 379 22	IC TL494IDR SOIC-16	
IC901	056G 379 71	IC TEA1530AT/N2 so-8 nxp	
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q803	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q902	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q802	057G 600 55	P5506 HVG SO-8	
Q810	057G 759 2	RK7002	
Q809	057G 759 2	RK7002	
Q808	057G 760 4B	PDTA144WK SOT346	
Q805	057G 760 5B	PDTC144WK SOT346	
Q802	057G 763 14	AM9945N	
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R821	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R822	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R826	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R925	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R805	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R811	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R817	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R828	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R832	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R851	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R926	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	

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R803	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R835	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R862	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R814	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W	
R801	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W	
R924	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W	
R831	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W	
R930	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W	
R940	061G0603330 2F	RST CHIPR 33K OHM +-1% 1/10W	
R806	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W	
R809	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W	
R813	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W	
R827	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W	
R927	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W	
R808	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R820	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R802	061G0603510 2F	RST CHIPR 51 KOHM +-1% 1/10W	
R807	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R837	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R841	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R853	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R804	061G0805101	1ST CHIPR 100 OHM +-5% 1/8W	
R911	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R917	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R929	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R938	061G0805103	RST CHIPR 10K OHM +-5% 1/8W	
R916	061G0805152	RST CHIPR 1.5 KOHM +-5% 1/8W	
R825	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R829	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R839	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R850	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R912	061G0805220 2F	RST CHIPR 22 KOHM +-1% 1/8W	
R915	061G0805224	RST CHIPR 220 KOHM +-5% 1/8W	
R810	061G0805510 2F	RST CHIPR 51K OHM +-1% 1/8W	
R931	061G0805822	RST CHIPR 8.2 KOHM +-5% 1/8W	
R967	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR901	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR802	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR801	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
F902	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	

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F801	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W	
R910	061G1206100	RST CHIPR 10 OHM +-5% 1/4W	
R909	061G1206100	RST CHIPR 10 OHM +-5% 1/4W	
R962	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R961	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R935	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R920	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R919	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R918	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R928	061G1206102	RST CHIPR 1k OHM +-5% 1/4W	
R923	061G1206102	RST CHIPR 1k OHM +-5% 1/4W	
R922	061G1206102	RST CHIPR 1k OHM +-5% 1/4W	
R921	061G1206102	RST CHIPR 1k OHM +-5% 1/4W	
R812	061G1206330	RST CHIPR 33 OHM +-5% 1/4W	
R855	061G1206330	RST CHIPR 33 OHM +-5% 1/4W	
R932	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R933	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R904	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R903	061G1206684	RST CHIPR 680K OHM +-5% 1/4W	
R902	061G1206684	RST CHIPR 680K OHM +-5% 1/4W	
R901	061G1206684	RST CHIPR 680K OHM +-5% 1/4W	
C819	065G0603103 12	CHIP 0.01UF 16V X7R	
C823	065G0603103 12	CHIP 0.01UF 16V X7R	
C834	065G0603103 12	CHIP 0.01UF 16V X7R	
C842	065G0603103 12	CHIP 0.01UF 16V X7R	
C924	065G0603103 12	CHIP 0.01UF 16V X7R	
C825	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C821	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C807	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C803	065G0805102 31	CAP CHIP 0805 1000PF J 50V NPO	
C839	065G0805102 31	CAP CHIP 0805 1000PF J 50V NPO	
C910	065G0805102 31	CAP CHIP 0805 1000PF J 50V NPO	
C931	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C930	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C916	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C907	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C824	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C822	065G0805105 22	CAP CHIP 0805 1uF K 25V X7R	
C911	065G0805105 22	CAP CHIP 0805 1uF K 25V X7R	
C928	065G0805122 31	CHIP CAP 0805 1200PF J 50V NPO	

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C820	065G0805221 31	CAP CHIP 0805 220PF J 50V NPO	
C909	065G0805224 32	0.22UF,K,50V,X7R	
C845	065G0805225 12	CAP CHIP 0805 2.2UF K 16V X7R	
C912	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
C929	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D805	093G 64 38 D	DIODE BAW56 DIODES	
ZD902	093G 39S 15 T	RLZ15B LLDS	
ZD921	093G 39S 15 T	RLZ15B LLDS	
ZD922	093G 39S 25 T	RLZ5.1B LLDS	
D916	093G 64S511SEM	1N4148W	
D915	093G 64S511SEM	1N4148W	
D903	093G 64S511SEM	1N4148W	
D817	093G 64S511SEM	1N4148W	
D814	093G 64S511SEM	1N4148W	
D813	093G 64S511SEM	1N4148W	
CN901	006G 31500	EYELET	
NR901	006G 31502	1.5MM RIVET	
IC904	056G 158 7	AP431V TO-92BY ATC	
IC904	056G 158 12	KIA431A-AT/P TO-92	
C938	065G 2K152 1T GP	CERAMIC CAP	
C906	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%	
C908	067G215Y2207KT	CAP 105℃ 22UF M 50V KINGNICHI	
FB901	071G 55 29	FERRITE BEAD	
F901	084G 55 1W	FUSE 4A 250V Wickmann	
D901	093G 6038P52T	PS102R	
D900	093G1100 1152T	DIODE PR1007R 1A/1000V DO-41	
	715G2664 1 2	POWER BOARD PCB FR-1 160*123*1.6MM SS	
	Q51G 6 4509	GLUE_RTV	
HS4	Q85G0065 1 S	SHIELD	
	Q34FPE19P07	CASE EEL19	
	071FPE19301 03	FP2 EEL 19 19T24V	
	Q15G0382101	MAIN FRAME	
	Q33G0248 B6 1L0100	KEY PAD L1900PPP	
	Q33G0249 1 1C0100	POWER LENS L1900PPP	
	Q33G0251 FM 1X0100	CABLE CLIP L1900PPP	
	Q34G0490 FMA1S0130	BEZEL L1900PPP	
	Q34G0491 FMA1S0130	REAR COVER L1900PPP	
	Q34G0492 FM 1S0100	HAND COVER L1900PPP	

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	Q34G0493 FM 1S0100	HAND TOP COVER L1900PPP	
	Q34G0499 FM 1S0132	CABLE COVER L1900PPP	
	Q37G0110011 FM	TILT SWIVEL HINGE	
	Q41G780060871A	L1900P QSG	
	Q44G9151101	EPS	
	Q44G9151201	EPS	
	Q44G9151608 1A	19 LCD CARTON	
	Q45G 77 5	PE PACKING	
	Q45G 88606 22	PE BAG 270*260MM	
	Q45G 88607 80	PE BAG 150*110MM	
	Q45G 88609 81 L	EPE BAG FOR MONITOR	
	Q45G2007M0203A	PE BAG FOR LENOVO	
	Q50G 505 24	TIE	
	Q52G 1185 95	BIG CARTON TAPE FOR LENOVO	
	S89G179T30NA08	LVDS ASSY	
	089F80001803AG	1.0*30*2.5-180-3-0.65*0.05	
	033F303FH10BK3	F1010HA-30P-BK	
	033F303FJSHK30	1.0S-19-30A	
	Q41G780060838A	STW	
	Q70G9000608 3A	CD MANUAL	
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	
	040G 582625 2A	S/N LABEL	
	040G 582625 3A	S/N LABEL	
	Q40G 19N60843A	RATING LABEL	
	Q40G 19N60844A	RATING LABEL	
	Q40G0001850 2A	CARTON LABEL 90X120	

The BOMs of T9RGM6DMKCH2HC and T9RGM6DBKCH2HC are the same as T9RGM6DKKCH2HC's.

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12. Different Parts List

Diversity of T9RGM6DCKCH2HC Compared with T9RGM6DKKCH2HC			
Location	**Part No. for TPV**	**Description**	**Remark**
	Q40G000260830A	INDIA STICKER LABEL	

Diversity of T9RGM6DLKCH2HC Compared with T9RGM6DKKCH2HC			
Location	**Part No. for TPV**	**Description**	**Remark**
	089G412A18NLSB	POWER CORD	

Diversity of T9RGM6DJKCH2HC Compared with T9RGM6DKKCH2HC			
Location	**Part No. for TPV**	**Description**	**Remark**
	041G780062521A	1/PAPER	
	041G780062522A	COE	
	089G401A18NLSB	POWER CORD	
	045G 76 28IB2	PE BAG FOR MANUAL	
	Q41G780062523B	WARRANTY CARD	

Diversity of T9RGM6DBKCH3HC Compared with T9RGM6DKKCH2HC			
Location	**Part No. for TPV**	**Description**	**Remark**
	041G780062521A	1/PAPER	
	041G780062522A	COE	
	089G401A18NLSB	POWER CORD	
	Q41G780062523B	WARRANTY CARD	
	045G 76 28IB2	PE BAG FOR MANUAL	

Diversity of T9RGM6DBKCH34HC Compared with T9RGM6DKKCH2HC			
Location	**Part No. for TPV**	**Description**	**Remark**
	089G404A18NLSL	POWER CORD	

Diversity of T9RGM6DBKCH5HC Compared with T9RGM6DKKCH2HC			
Location	**Part No. for TPV**	**Description**	**Remark**
	089G404A18NLSL	POWER CORD	
	Q33G0248 IDA1L0100	KEY PAD L1900P	
	Q34G0490 UFA1S0130	BEZEL L1900P	
	Q40G 19N60842A	RATING LABEL	

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